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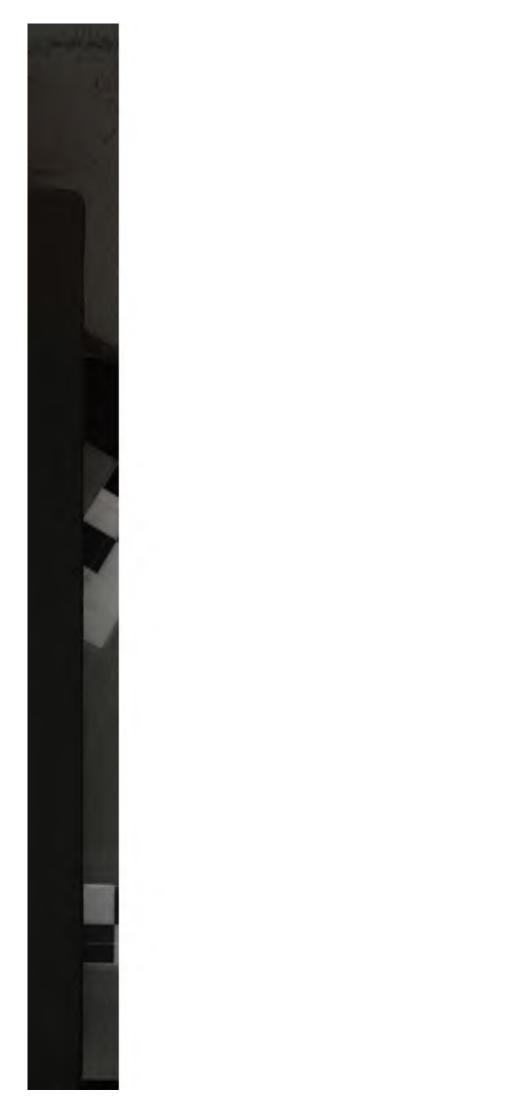
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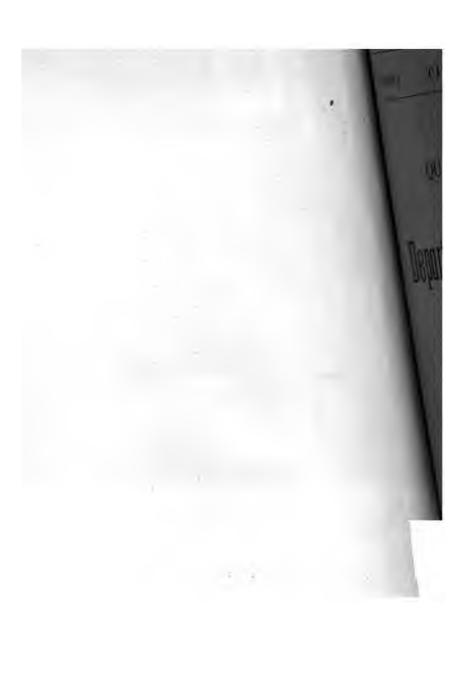




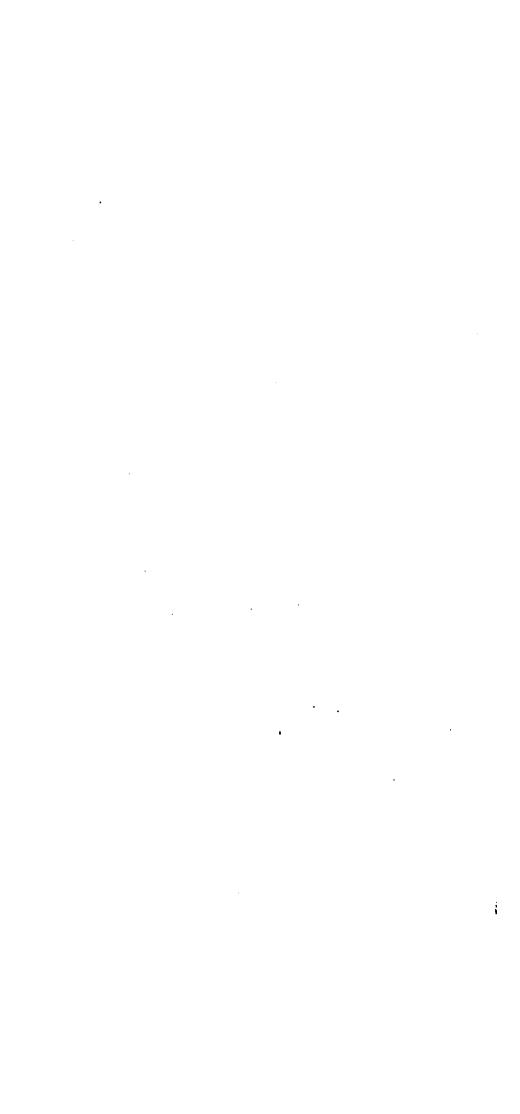












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### EIGHTY-FIRST

## QUARTERLY REPORT

# Department of Public Works

CITY OF PROVIDENCE, R. I.

QUARTER ENDING MARCH 31, 1903.



The Providence Press:

Snow & FARNHAM, CITY PRINTERS,

63 Washington Street.

1903.



### REPORT.

Office of the Department of Public Works, City Hall, Providence, R. I., April 1, 1903.

To the Honorable the City Council:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-first quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending March 31, 1903.

#### WATER WORKS.

January 20th, the proposal of General Fire Extinguisher Company to furnish service box covers at twenty-nine cents each, was accepted.

February 2d, the proposal of Doe & Little to furnish and deliver at Hope Pumping Station 50 tons egg white ash coal, at \$8.00 per ton, was accepted.

March 23d, the proposal of Eastern Coal Company to furnish and deliver at Hope Pumping Station 50 tons Scranton egg coal, at \$6.25 per ton, was accepted.

The average daily consumption of water during the last quarter was 12,456,477 gallons.

Water pipes were laid during the quarter as follows:

#### 6-inch.

In Elton, Frederick and Rodman streets; Humboldt, Lenox, Oriole and Rhode Island avenues; and in Dover street in the town of Cranston	1,816.60 feet.
or, .344 + mile.	

Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch	. 10,084.00 feet
30-inch	. 61,328.30 feet
24-inch	. 43,758.29 feet
20-inch	. 9,626.59 feet
16-inch	. 34,084.95 feet
12-inch	
10-inch	. 15,057.14 feet
8-inch	. 284,493.52 feet.
6-inch	. 1,212,745.86 feet
Total	. 1,774,607.40 feet
or, 336.099 + miles.	

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total	29,408.71 feet.
or, 5.569 + miles.	

Two fire hydrants have been set during the quarter, one in each of the following locations:

Elton street, north side, 64 feet west of west building line of Humboldt avenue.

Oriole avenue, north side, 296 feet west of west building line of Rhode Island avenue.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now nineteen hundred

and sixty-two — eighteen hundred and sixty-three flush, and ninety-nine post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and thirteen water meters were set, of which number forty-seven were to replace other meters. The use of five meters was discontinued.

The following meters were in use at the close of the quarter:

		SIZE.							
KIND.	ĝ-in.	₫-in,	1-in.	1½-in.	2-in.	3-in.	4-in.	6-in,	Total
Ball & Fitts	2,270	468	111	13	5				2,867
Ball & Fitts, rotary			.5	7		2	1		15
Crown	9,219	1,039	307	135	33	24	25	1	10,783
Empire	820	119	58	42	12		1		1,959
Fales, Jenks & Sons			1				*****		1
Gem	******				11	27	15	3	56
Thomson	3,909	423	75	53	21	7	7	2	4,497
Trident	102		1						103
Worthington	1	1			1				
	16,321	2,050	558	250	83	60	49	6	19,377

One hundred and twenty plumbers' licenses were issued during the quarter, all of which expire December 31, 1903.

Five hundred and twenty-one plumbing permits were issued during the quarter.

Eighty-one applications for water were made during the quarter, making the total number March 31, 1903, twenty-five thousand five hundred and eighty-five.

272 7

1,750 : \$13,074 :

б

The number of new service stops opened during th quarter was eighty-seven.

The total number of service stops opened to March 31 1903, inclusive, was twenty-four thousand eight hundred an ninety-seven. The number in actual use March 31, 1909 was twenty-two thousand seven hundred and eight-four.

The amount of bills approved on account of water works from January 1 to March 31, 1903, inclusive, was:

For maintenance.						<b>*17,890</b> 9
Classified as follow	vs:					
Рет	TACONS	er Pu	dPING :	STATIO	s.	
Fuel ail					87.250	48

Fuel oil	\$7,659	95	
Sundries	805	49	
Engineers	607	74	
Firemen	497	15	
Superintendence	396	75	
Worthington high-duty engine	730	55	
Labor on fuel.	225	45	
Repairs on boilers	216	44	
Care of grounds	203	25	
Barn expenses	132	55	
Oil, waste and packing	102	73	
Lights	3	86	
Corliss pumping engine and house		45	
<del>-</del>			\$11,091 3
Sockanosset Reservoir.			

Watchman Sundries	\$196 00 36 70
Hope Pumping Station.	
Coal and wood	\$868 85
Firemen	416 50
Engineers	322 00
Lights	69 93
Sundries	41 79
Care of grounds	28 25
Repairs on boilers	1 53
Oil, waste and packing	1 35

Amount brought forward			<b>\$</b> 13,074	26
Hope Reservoir.				
Watchman	<b>\$220</b>	50		
Sundries	83	<b>5</b> 3		
· ·		_	304	0:
FRUIT HILL RESERVOIR.				
Watchman	<b>\$</b> 220	50		
Sundries	186	22	40.4	
		_	406	72
METER DEPARTMENT.				
Setting and repairing meters	<b>\$</b> 1,418	15		
Water meters	954	62	2,372	77
			2,0.2	•
PIPE LINE AND SERVICE STO	PS.			
Repairs	\$4,107	13		
Superintendence — salaries	916	65	E 003	70
PIPE YARD.			5,023	"
	@ 1 K #200	71		
Cast iron water pipe	\$15,669			
Laying water pipe	2,447 1,109			
Laying service pipe	1,033			
Special castings	682			
Pig lead and tin	649			
Taps and stops	600			
Fire hydrants, boxes and covers	548			
Stop valves	509			
Labor on and carting pipe	175			
Tools	151			
Pipe yard, office expenses	62			
Repairs on pipe yard buildings		50		
-		_	23,640	63
MISCELLANEOUS.				
Clerks' and inspectors' salaries	<b>\$1,6</b> 63			
Barn expenses	696			
Prevention of defilement of the Pawtuxet	268	85		
Horses, wagons, harnesses, etc	146			
Telephone lines	137	68		
Car fares	100	00		
Inspection of water pipe with reference to electro-				
lysis	50	_		
Public drinking fountains and troughs		53		

8	CITY DOCUMENT.	[No. 19
For construction,		<b>\$3,913</b> 8:
Charged as follo	ws:	
Installation of sand filt	ration plant at Pettaconset. \$3,9	13 82
The total expend	litures to March 31, 1903,	
inclusive, was .		<b>\$9,416,575</b> 0:
March 31, 1903, inclusive The net expenditure inclusive, was	for maintenance from January e, was for maintenance to March 31, for construction from July 1, 190 e, was	\$42,435 7 1903, \$1,906,995 3 2, to
The value of t	he water works system,	
	s estimated by the city	
engineer, was as fo	•	
Pettaconset pumping st	ation \$340,69	94 00
	Fruit Hill reservoirs 714,04 tion pipes	
		75 00
Fools and supplies	29,87	75 18 —— <b>\$</b> 3,956,772 6
Bills deposited	with the city treasurer	
•	January 1 to March 31,	
1903, inclusive, am	•	<b>\$419,136 1</b> 4
As follows:		
Water	<b>\$41</b> 3,26	i0 55
	•	2 25
	•	7 <b>9</b> 6 7 19
Panaltine	• •	1 00

Penalties.... Rent of real estate ..... Repairs on pipe line
Use of teams, carting coal.
Permanently closing service stops. 144 00 101 75

48 69

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

\$414,482 77

#### As follows:

Water	\$408,883	54
Water meters	3,040	78
Setting and repairing meters	1,507	98
Labor and material, laying services, etc	640	63
Penalties	144	00
Repairs on pipe line	111	62
Rent of real estate	105	50
Permanently closing service stops	30	00
Use of teams, carting coal	18	78
	\$414,482	77

#### SEWERS.

During the quarter ending March 31, 1903, one hundred and sixty-one permits were issued to drain layers—sixty-nine for new work and ninety-two for extension and repairs of drains.

One hundred and thirty-three drain layers' licenses were issued during the quarter, all of which expire December 31, 1903.

March 24th, proposals were accepted to furnish and deliver on c ty wharf, sewer brick for the sum of eight dollars per thousand, as follows:

Manchester & Hudson, two cargoes of about 225,000 brick. James C. Goff, two cargoes of about 225,000 brick.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

Bellevue avenue, from near Elmwood to Bucklin street	\$1,820 8
Hamlin street, from Elmwood avenue to Roger Williams Park	1,858 9
Doane and Everett avenues	2,251 5
Oriole and Rhode Island avenues	2,075 2
President avenue, from Arlington to Wayland	4,194 7
Moses Brown street, from Angell to South Angell	437 €
Suffolk street, from Salina to Admiral	861 8
Phillips street, from near Hope to Morris avenue	1,021 2
Primrose, Walnut and Byron streets	1,862 2
Calais and West Park streets	2,894 7
Calais, Edith and Leland streets	3,436 0
Massachusetts avenue, from Virginia to Broad street	2,561 7
Douglas and Camden avenues	12,025 3

During the quarter, the construction of the following sewers was completed namely:

sewers was completed, namely:

No. of resolution. Date of approval.

Date of completion.

852. Nov. 6, 1902, Doane and Everett avenues, . . . . . . . Jan. 10, 1903.

354. " " Tuxedo and Regent avenues, . . . . . . April 1, 1903.

At the close of the quarter, work upon the following sewers of the improved sewerage system was in progress, namely:

No. of resolution. Date of approval.

572. Dec. 20, 1895, Section 28, Moshassuck Division, Improved Seweraye System.

381. Oct. 4, 1901, Section 27, Moshassuck Division, Improved Sewerage System.

196. June 6, 1902, India and South Main streets, Improved Sewerage System.

Work upon the following lateral sewer was in progress at the close of the quarter, namely:

355. Nov. 6, 1902, Wallace street, from near Webster avenue to Priscilla.

Work upon the following sewers, completing the work ordered by the city council, had not commenced March 31, 1903, namely:

No. of re	solution.	Da	ate of ap	proval.
349.	Nov.	6,	1902,	Algonquin street, Reservoir avenue and right of way.
350.	"	"	"	Branch avenue, from Douglas to Veazie street.
351.	"	"	"	Cemetery street, from near North Main to Frost.
353.	"	66	"	Jewett street, from Valley 510 feet easterly.

The amount of bills approved on account of sewers from January 1 to March 31, 1903, inclusive, was as follows:

#### FOR CONSTRUCTION.

Regular appropriation	\$8,363 40,486		
-			<b>\$48,850</b> 12
Charged as follows:			
Material	<b>\$</b> 9,772	94	
Contract reservations	1,541	00	
Testing cement	405	86	
Sundries	304	64	
Additional catch-basins	144	30	
Sundries, improved sewerage system	20	98	
Tools	14	12	
Sewer in Doane and Everett avenues	551	93	
Sewer in Tuxedo and Regent avenues	1,349	39	
Sewer in Wallace street, from near Webster ave-			
nue to Priscilla	27	30	
Sewer in Moshassuck Division, Section 27	13,666	79	
Sewer in Moshassuck Division, Section 28	16,985	08	
Sewer in Seekonk Division, Section 29	4,065	79	
	<b>\$</b> 48,850	12	

354.

. Jan. 10, 1903.

. April 1, 1903.

Bellevue avenue, from near Elmwood to Bucklin street	\$1,820	85
Hamlin street, from Elmwood avenue to Roger Williams Park	1,858	97
Doane and Everett avenues	2,251	54
Oriole and Rhode Island avenues	2,075	24
President avenue, from Arlington to Wayland	4,194	73
Moses Brown street, from Angell to South Angell	437	60
Suffolk street, from Salina to Admiral	861	80
Phillips street, from near Hope to Morris avenue	1,021	24
Primrose, Walnut and Byron streets	1,862	
Calais and West Park streets	2,894	
Calais, Edith and Leland streets	3,436	00
Massachusetts avenue, from Virginia to Broad street	2,561	70
Douglas and Camden avenues	12,025	34
Total	\$37,301	<u>-</u>
During the quarter, the construction of the f sewers was completed, namely:	ollowin	g
No. of resolution. Date of approval. Date of	completio	n.
352. Nov. 6, 1902, Doane and Everett ave-		

At the close of the quarter, work upon the following sewers of the improved sewerage system was in progress, namely:

Tuxedo and Regent ave-

nues,

nues,

No. of resolution. Date of approval.

Dec. 20, 1895, Section 572. 28, Moshassuck Division, Improved Sewerage System.

Oct. 4, 1901, Section 27, Moshassuck Division, Improved Sewerage System.

June 6, 1902, India and South Main streets, Improved Sewerage System.

Work upon the following lateral sewer was in progress at the close of the quarter, namely:

355. Nov. 6, 1902, Wallace street, from Webster near avenue to Priscilla.

Work upon the following sewers, completing the work ordered by the city council, had not commenced March 31, 1903, namely:

No. of re	solution.	. Da	ate of ap	proval.
349.	Nov.	6,	1902,	Algonquin street, Reservoir avenue and right of way.
350.	"	"	"	Branch avenue, from Douglas to Veazie street.
351.	"	"	"	Cemetery street, from near North Main to Frost.
353.	"	"	"	Jewett street, from Valley 510 feet easterly.

The amount of bills approved on account of sewers from January 1 to March 31, 1903, inclusive, was as follows:

#### FOR CONSTRUCTION.

For maintenance,

Improved sewerage appropriation	40,486 39	\$48,850 12
Charged as follows:		
Material	\$9,772 94	
Contract reservations	1,541 00	
Testing cement	405 86	
Sundries	304 64	
Additional catch-basins	144 30	
Sundries, improved sewerage system	20 98	
Tools	14 12	
Sewer in Doane and Everett avenues	551 93	
Sewer in Tuxedo and Regent avenues	1,349 39	
Sewer in Wallace street, from near Webster ave-		
nue to Priscilla	27 30	
Sewer in Moshassuck Division, Section 27	13,666 79	
Sewer in Moshassuck Division, Section 28	16,985 08	
Sewer in Seekonk Division, Section 29	4,065 79	
	\$48,850 12	

. . \$24,431 68

Date of order.

Statements have been prepared of the cost of curbstones set, ascertained by the commissioner of public works and certified to the board of aldermen for approval, as follows:

Bellevue avenue	\$1,087 56
Calais street	585 39
Eastwood avenue	1,407 44
Edith street	849 0
Grand View street	934 02
Hope street	323 82
Leland street	
Oriole avenue	616 58
Oxford street	79 68
President avenue	151 22
Primrose street	493 78
Rhode Island avenue	355 13
Smithfield avenue	2,280 01
Tenth street	871 29
Woodbine street	1,607 15
<b>-</b>	

During the quarter, the following work was completed:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Oct. 16, 1902, Primrose street, from Vinton to Vernon.

Nov. 20, " Grand View street, from Knowles to North Main.

" " Oriole avenue, from end of curb to Rhode
Island avenue; Rhode Island avenue, from
Oriole to Angell street.

The following work was in progress March 31, 1903, namely:

Sidewalks to be Curbed and Gutters Paved.

May 16, 1901, Douglas avenue, from Chad Brown street to Admiral.

Nov. 20, 1902, Phillips street, from Hope to Morris avenue.

Dec. 18, "Sears avenue, from Atwells to its northerly termination.

#### TO GRADE AND BUILD.

No. of resolution. Date of approval.

232. July 7, 1902, Manton avenue, from Unit street to Chalkstone avenue.

The following work, ordered by the board of aldermen and city council, had not commenced March 31, 1903, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

#### Date of order.

- 16, 1902, Laurel Hill avenue, from end of curbing to Pocasset avenue.
- Bolander street, from Abbott to Grand View.
- Nov. 20, Egan street, from Manton avenue to the bridge.
  - " " Suffolk street, from Admiral to Salina.
- Lenox avenue, from Melrose street Dec. 18, to Hamilton.
  - Hamlin street, from Roger Williams park to Elmwood avenue.

#### TO PAVE WITH GRANITE BLOCKS.

No. of resolution. Date of approval.

379. Oct. 4, 1901. Branch avenue, from Veazie street to bridge near Vandewater.

Bills approved on account of highways from January 1 to March 31, 1903, inclusive, amounted to:

Kegular appropriation	\$41,232 09	
Special appropriation	709 88	
-		\$41,941 97

Classified as follows:		
Crushed stone - material and labor	\$8,200 59	
Cleaning streets	7,048 02	
Removing snow and ice	5,361 45	
Repairs on unpaved streets	4,219 24	
Barn expenses	2,819 77	
Blacksmith and wheelwright shop	2,759 85	
Steam rollers — repairs and supplies	2,377 99	
Labor on material	1,207 37	
Tools, implements, etc	868 44	
Stone - paving and crosswalk	675 30	
Repairs on stone crushers	<b>581 46</b>	
Repairs on paved streets	442 52	
Superintendent's salary	<b>442 0</b> 0	
Horses, wagons, harnesses, etc	396 45	
Watchman at city yard	156 00	
Office expenses, city yard	117 79	
Sundries	94 48	
Repairs on buildings, highway yard	62 78	
Fencing streets — material and labor	49 26	
Watering streets	26 21	
Building driveways, etc	25 48	
Car fares	25 00	
Telephone lines	5 35	
NEW WORK — BUILDING AND R ING STREETS, ETC.	EBU iLD-	
SIDEWALKS CURBED AND GUTTERS	Paved.	
Douglas avenue, from Chad Brown street to Ad-		
miral	<b>3</b> 709 88	
Grand View street, from Knowles to North Main  Oriole avenue, from end of curb to Rhode Island avenue, and in Rhode Island avenue from	1,125 83	
Oriole to Angell street	1,348 35	
Phillips street, from Hope to Morris avenue	429 86	
Primrose street, from Vinton to Vernon	189 80	
Sears arenue, from Atwells to its northerly ter-		
mination	175 45	
_		3,979
		<b>\$41,941</b> 1
Bills deposited with the city treasure	er	
for collection from January 1 to March 3		
1903, inclusive, amounted to		<b>\$</b> 6,432 6

As follows:		
Labor and material	\$4,200	81
Blacksmith and harness work for other depart-		
ments	1,205	30
Street sweepings	350	40
Boarding horses for other departments	324	68
Use of teams, carting coal	229	48
Manure from barn	72	00
Removing trees	50	00
-	\$6,432	69

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$7,346 21

#### As follows:

Labor and material	\$5,638	88
Blacksmith and harness work for other depart-		
ments	661	12
Street sweepings	371	15
Boarding horses for other departments	324	68
Use of teams, carting coal	228	38
Manure from barn	72	00
Removing trees	50	00
-	\$7,346	21

#### SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from January 1 to March 31, 1903, inclusive, amounted to . . .

**\$**1,119 57

# Charged as follows:

	\$1,119	57
Granite curbing	259	35
Repairing sidewalks and gutters		70
Concreting sidewalks	\$471	<b>52</b>

Curbing bills deposited with the city treasurer for collection from January 1 to March 31, 1903, inclusive, amounted to . \$12,292 31



The following work had not commence quarter, namely:	d at the end of the
No. of resolution. Date of approval.	
411. Dec. 19, 1902, Exchange bridge on	ite northerly eide .
	•
bridge over the rive	er between Exchange
and Burnside bridg	ges; River walls be-
	d Exchange bridges.
73. March 3, 1903, Adelaide avenue, a over tracks of N. R. R. Co.	butments for bridge Y., N. H. and H.
Bills approved on account of bridges fro	om
January 1 to March 31, 1903, inclusiv	
amounted to	. \$4,880 12
Charged as follows:	
Atwells avenue bridge	<b>\$</b> 11 51
Barn expenses	113 10
Branch avenue bridge	3 30
Building at city yard	10 47
Burnside bridge	7 90
Crawford street bridge	171 87
Eagle street bridge	85
Exchange bridge	14 48
Francis street bridge	9 30
Horses, wagons, harnesses, etc	12 <b>44</b>
Lumber, hardware, etc	116 60
Manton bridge	3 86
Manton avenue bridge	9 88
Mill street bridge	7 80
Nash lane bridge	14 12
Point street bridge	220 75
Red bridge	94 74
	00.00
Rent of keeper's house — Washington bridge  Salaries — Point street bridge	32 00 978 25

513 50 , 491 82

5 10

270 16

2 68 189 13

Smith street bridge.....

Sundries.....

Telephone lines.....

Amount carried forward...... \$3,305 61

Amount brought forward	\$3,305	61	
Valley street bridge — north span	10	85	
Valley street bridge — south span	10	55	
Wanskuck bridge	-	10	
Washington bridge	1,522		
West River street bridge	_	10 59	
w neiden street bridge		<del></del>	
	\$4,880	12	
Bills deposited for collection from Janua	ry		
1 to March 31, 1903, inclusive, (for lumb	er		
furnished various departments), amounted	to	<b>\$210</b>	76
During the quarter, coupons from bi	lls		
collected (for lumber furnished various	le-		
partments), have been returned by the ci			
treasurer and receipted for, to the amount	•	<b>\$210</b>	76
treasurer and receipted for, to the amount	O1	4210	
Bills approved for account of building t	he		
Merino bridge, from January 1 to Mar	ch		
31, 1903, inclusive, have been paid from			
the special appropriation for that work,			
	w	<b>A</b> 00.40.4	
the amount of	•	<b>\$</b> 23,634	55
Bills approved for account of building t	he		
river walls between the Burnside and E	x-		
change bridges, from January 1 to Mar	ch		
31, 1903, inclusive, have been paid from t			
•			
special appropriation for that work, to t	116	***	<b></b> .
amount of	•	<b>*</b> 65	14

#### PUBLIC LIGHTS.

Charged as follows:

Arc lights	\$54,606	60	
Incandescent lights	11,320	53	•
Welsbach lights	5,898	92	
Salaries	310	00	
Gas for street lights	69		
Setting and removing gas posts	67		
Barn expenses	35		
Horses, wagons, harnesses, etc	8	35	
	<b>\$7</b> 2,317	25	
Bills deposited with the city treasurer	for		
collection (for old iron and copper), from			
•			
January 1 to March 31, 1903, inclusi-	ve,		
amounted to	•	<b>\$</b> 133	07
During the quarter, coupons from bi	ills		
collected (for old iron and copper sold), ha			
been returned by the city treasurer a	na		
receipted for to the amount of .		<b>\$1</b> 33	07
PUBLIC WORKS OFF	ICE.		
Bills approved on account of the pub	lic		
works office from January 1 to March ?	31.		
1903, inclusive, amounted to	1	<b>\$7,154</b>	.1.1
1505, inclusive, amounted to	•	ф1,10 <del>4</del>	11
Charged as follows:			
Salaries of commissioner and secretary	\$1,925	00	
Salaries of office assistants	3,363		
Installation of card system	1,684		
Office supplies	178		
Telephone lines	2 (	<b>58</b>	

ROBERT E. SMITH,

\$7,154 44

Commissioner.



# EIGHTY-SECOND QUARTERLY REPORT

# Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1903.



The Providence Press:

SNOW & FARNHAM, CITY PRINTERS, 63 Washington Street. 1903.





#### EIGHTY-SECOND

### QUARTERLY REPORT

# Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1903.



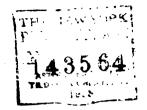
The Drovidence Dress:

SNOW & FARNHAM, CITY PRINTERS,

63 Washington Street.

1903.





## REPORT.

Office of the Department of Public Works, CITY HALL, PROVIDENCE, R. I., July 1, 1903.

#### TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-second quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending June 30, 1903.

#### WATER WORKS.

May 1st, the proposal of John R. White & Son, Incorporated, to furnish and deliver at Pettaconset pumping station 500 tons Pocahontas coal at \$5.40 per ton of 2,200 pounds, was accepted.

June 17th, the proposal of Pocasset Ice Company to furnish ice for the public drinking fountains for the season of 1903, for two dollars per ton, was accepted.

The average daily consumption of water during the last quarter was 13,098,792 gallons.

Water pipes were laid during the quarter as follows:

12-ISCE.	
In River avenue	1,287.23 feet
8-DCE.	
In Bath, Byfield, Calverley, Silver Spring and Veazie streets, and Branch avenue; and in Narragansett Boulevard in the town of Cranston	4,680.25 feet.
6-ISCH.	
In Agnes, Barker, Calverley, Clarence, Cutler, Dike, East River, Faith, Jewett, Lamb, Moses Brown, Okie, Van- dewater and West Park streets; Belair and Richfield avenues; and in Gladstone, Lawrence and Northup streets; Villa and Richfield avenues and Roland court	
in the town of Cranston	4,791.55 feet.
Total	10,761.59 feet.
or 2.038 + miles.	
Water pipes were removed during the quarter	as follows:

6-INCH.

From Grand and Veazie streets and Branch avenue....... 1,729.36 feet. or .827 + mile.

Statement of sizes and lengths of pipe laid since the commencement of the work:

Total	1,783,639.63 feet
6-inch	1,215,808.05 feet
8-inch	289,173.77 feet
10-inch	15,057.14 feet
12-inch	104,715.98 feet
16-inch	34,067.51 feet
<b>20</b> -inch	9,626.59 feet
<b>24-</b> inch	<b>43</b> ,758.29 feet
<b>30-inch</b>	61,328.30 feet
<b>36-</b> inch	10,064.00 feet

or, 337.810 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch 16-inch 12-inch	23,004.37 feet.
Total	29,408.71 feet.

or, 5.569 + miles.

Ten fire hydrants have been set during the quarter, one in each of the following locations:

Belair avenue, east side, 186 feet south of south building line of Cypress street.

Branch avenue, south side, 13½ feet east of east building line of Veazie street.

Charles street, east side, on north building line of Ledge street.

Clarence street, north side, 247 feet west of west building line of Webster avenue.

Edith street, north side, 30 feet east of range of east building line of Leland street.

Promenade street, north side,  $3\frac{1}{2}$  feet east of east building line of Calverley street.

River avenue, east side, 1 foot south of south building line of Augusta street.

Vezzie street, east side, 2 feet south of range of south building line of Houghton street.

Vandewater street, east side, south of south building line of Branch avenue.

West Park street, north side, 5 feet west of west building line of Aster street.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now nineteen hundred and seventy-two — eighteen hundred and seventy-three flush, and ninety-nine post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and seventeen water meters were set, of which number forty-six were to replace other meters. The use of four meters was discontinued.

The following meters were in use at the close of the quarter:

				812	E.				ا ـ
KIND.	g-in.	Į-in,	1-in.	1½-in.	2-in.	3-in.	4-in.	6-in.	Total
Ball & Fitts	2,239	458	110	11	5		,.,		2,82
Ball & Fitts, rotary			4	7		2	1	*****	14
Crown	9,273	1,053	312	137	35	24	25	1	10,860
Empire	853	122	61	42	13	1	1	*****	1,093
Fales, Jenks & Sons			1	,,,,,,		orne			3
Gem					13	28	16	3	60
Thomson	3,998	423	75	54	22	7	7	2	4,589
Trident	102		1			· · · · ·			103
Worthington	1				1				2
	16,466	2,056	564	251	89	62	50	6	19,544

Nine plumbers' licenses were issued during the quarter, making the total number one hundred and twenty-nine, all of which expire December 31, 1903.

Six hundred and ninety-six permits to do plumbing were issued during the quarter.

One hundred and seventy-seven applications for water were made during the quarter, making the total number June 30, 1903, twenty-five thousand seven hundred and sixty-two.

The number of new service stops opened during the quarter was one hundred and eighty-eight.

The total number of service stops opened to June 30, 1903, inclusive, was twenty-five thousand and eighty-five. The number in actual use June 30, 1903, was twenty-three thousand one hundred and three.

The amount of bills approved on account of the water works, from April 1 to June 30, 1903, inclusive, was:

For maintenance,	•	<b>\$34</b> ,	983	93
Classified as follows:				
PETTACONSET PUMPING STATIC	ON.			
Coal and wood	\$3,932	50		
Fuel oil	1,382			
Sundries	652			
Engineers.	580			
Firemen	526			
Superintendence	345			
Worthington high-duty engine	151 139			
Oil, waste and packing	123			
Labor on fuel	100			
Barn expenses		75		
Repairs on boilers		90		
Corliss pumping engine and house		95		
Cornish engine house		84		
Lights	-	00		
Real estate	Ü	30		
<del>-</del>		_	\$8,138	56
SOCKANOSSET RESERVOIR.				
Sundries	<b>\$</b> 183	00		
Watchman	168	00		
<del>-</del>		_	351	00
HOPE PUMPING STATION.				
		_		
Coal and wood	<b>\$</b> 659			
Firemen		50		
Engineers	276			
Holly pumping engine		91		
Lights		05		
Sundries		50		
Repairs on boilers		61 00		
Care of grounds			1,670	91
			-,	
Hope Reservoir.				
Watehman	<b>\$</b> 189	00		
Sundries	173			
-			362	2 25
FRUIT HILL RESERVOIR.				
Sundries	\$487	58		
Watchman	189			
_		_	676	5 58
Amount carried forward		-	<b>\$11,19</b>	30

5

Amount brought forward			\$11,19	99 3
METER DEPARTMENT.				
Water meters	\$2,618 1,252		3,87	70 B
•			-,	
PIPE LINE AND SERVICE STO	P8.			
Repairs	<b>\$</b> 3,902			
Superintendence — salaries	783		4,68	35 O
PIPE YARD.				
Laying water pipe	\$3,671	64		
Fire hydrants, boxes and covers	2,412			
Special castings	1,713			
Laying service pipe	1,329			
Stop valves	761 695			
Labor on and carting pipe	262			
Tools	180			
Patterns for special castings	74			
Pipe yard, office expenses	25	98		
Pig lead and tin	2	14		
•		_	11,12	9 62
MISCELLANEOUS.				
Clerks' and inspectors' salaries	\$1,425	<b>6</b> 0		
Prevention of defilement of the Pawtuxet	733	32		
Barn expenses	680			
Transferring water service records to card system.	444			
Sundries	328			
Horses, wagons, harnesses, etc	215 137			
Car fares	100			
Public drinking fountains and troughs	34		4.00	r) 25
			4,09 534,98	—
			-	
For construction,	•	\$13	,645	41
Charged as follows:				
Installation of sand filtration plant at Pettaconset.	\$13,645	41		
The total expenditures to June 30, 190	)3.			

		WURAS.	<del></del>
The net expenditure for maintenance from June 30, 1903, inclusive, was	e 30, 19	\$27,100 03, \$1,934,102 to	2 04
		977,772	2 10
The value of the water works syste			
January 1, 1903, as estimated by the c	ity		
engineer, was as follows:			
Pettaconset pumping station	129,405 714,047	79 55 16	
Tools and supplies	29,875	18	
-		<b>\$3,956,77</b>	2 68
Bills deposited with the city treasu			
for collection from April 1 to June	30,		
1903, inclusive, amounted to		<b>\$79,124</b>	37
As follows:			
Water	\$70,987	47	
Water meters	3,745		
Labor and material, laying services, etc.,	2,078		
Setting and repairing meters	1,891		
Repairs on pipe line	144 111		
Penalties		00	
Lead dross		32	
Permanently closing service stops	25	00	
	\$79,124	37	
During the quarter, coupons from b	•		
collected have been returned by the c			
treasurer and receipted for to the amount	-	<b>67</b> 0 054	90
• · · · · · · · · · · · · · · · · · · ·	01	<b>\$</b> 79,954	ου
As follows:	•		
Water	<b>\$71,99</b> 9	54	
Water meters	3,765		
Labor and material, laying services, etc	2,273		
Setting and repairing meters	1,542 143		
Penalties		00	
Repairs on pipe line		16	
	C1	32	
Lead dross	•		
Lead dross  Permanently closing service stops	•	00	

#### SEWERS.

During the quarter ending June 30, 1903, two hundred and fifty-eight permits were issued to drain layers - one hundred and forty-one for new work and one hundred and seventeen for extension and repairs of drains.

Ten drain layers' licenses were issued during the quarter, making the total number one hundred and forty-three, all of which expire December 31, 1903.

June 25th, the proposal of the New England Steam Brick Company to furnish and deliver sewer brick for the improved sewerage system for the sum of \$10.50 per thousand, was accepted.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

Cemetery and Frost streets	\$4,805	84
Summit avenue, from Fourth street to Seventh	2,628	88
Tenth street, from North Main to Highland avenue	2,010	43
North Main street, from the city line to Frost street	7,718	88
Seventh street, from Summit avenue to North Main street	3,514	62
Sears avenue, from Atwells to Rangeley	1,220	77
Woodbine and Gandview streets	5,705	14
Laurel Hill avenue, from Pocasset to Plainfield street	2,555	<b>3</b> 9
Unit street, from Maynard to Manton avenue	2,727	96
Smithfield and Branch avenues	4,756	19
Oxford street, from near Eddy to Allens avenue	3,566	<b>2</b> 0
Hamilton, Irving and Melrose streets	151	42
T-4-1	<b>A</b> 44 004	

April 14th, a contract for the construction of the following sewer was awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials, or rock excavation.]

TO FREDERICK E. SHAW.

No. of resolution. Date of approval. 132. April 7, 1903, Branch avenue, from

> Veazie street to the river, - storm sewer, Improved Sewerage System,

**\$8,518 50** 

April 28th, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

#### TO FREDERICK E. SHAW.

No. of re	esolution	. D	ate of ap	proval.		
127.	April	7,	1903,	Atwells avenue, Pine		
	_			and Broad streets, .	<b>\$2,518</b>	40
129.	46	"	66	Weymouth street and		
				Lloyd avenue,	1,775	00
130.	44	66	66	Wayland, Cole and		
				University avenues, .	3,584	40
131.	"	"	66	Branch avenue, from		
				near Langdon street to		
				near the Moshassuck		
				river,	5,111	<b>05</b>
133.	44	"	"	Charles street, from near		
				Amboy to Branch avenue,	4,075	90
134.	46	"	46	Silver Spring street and		
				Northup avenue,	4,735	<b>30</b>

May 1st, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

#### To TIMOTHY F. LYONS.

No. of resolution. Date of approval.

128. April 7, 1903, Merino avenue, from

Manton avenue to near

Merino bridge, . . \$4,183 30

TO GEORGE R. NEWMAN.

136. April 7, 1903, Section 30, Seekonk Division, Improved Sewerage System.—In Butler
Hospital grounds, \$24,895.50

During the quarter, the construction of the following sewers was completed, namely:

No. of r	esolution	. D	ate of ap	proval. Date of completion.
<b>572.</b>	Dec.	20,	1895,	Section 28, Moshassuck Division, Improved Sew-
<b>381</b> .	Oct.	4,	1901,	erage System, June 17, 1903.  Section 27, Moshassuck  Division, Improved Sewerage System, May 16, 1903.
196.	June	6,	1902,	India and South Main streets, Improved Sew-
<b>349</b> .	Nov.	6,	44	erage System, April 16, 1903.  Algonquin street, Reservoir avenue and right of
<b>351.</b>	"	44	"	way, May 26, 1903.  Cemetery street, from  North Main to Frost, . May 11, 1903.
353.	44	"	44	Jewett street, from Val-
<b>35</b> 5.	"	"	. "	ley 510 feet easterly, . April 21, 1903.  Wallace street, from near  Webster avenue to Pris-

At the close of the quarter, work upon the following sewers of the improved sewerage system was in progress, namely:

No. of resolution. Date of approval.

- 132. April 7, 1903, Branch avenue, from Veazie street to the river,—storm sewer.
- 136. " " Section 30, Seekonk Division, Improved Sewerage System.

Work upon the following lateral sewers was in progress at the close of the quarter, namely:

No. of resolution. Date of approval.

- 350. Nov. 6, 1902, Branch avenue, from Douglas to Veazie street.
- 133. April 7, 1903, Charles street, from near Amboy to Branch avenue.

Wordered 1903, 1 No. of real 127.	rk up l by namel	on the y:	the fo	Silver Spring statements.  collowing sewers, concouncil, had not concouncil,	mpleting	•
ordered 1903, 1 No. of red 127.	d by	the y:		•		the work
1903, 1 No. of rea 127.	namel solution	<b>y</b> :	city (	council, had not co	hannam	
127.		n.			mmenceu	June 30,
			ate of ap	proval.		
	A pril		_	Atwells avenue, Pin	e and Bro	ad streets.
128.	"	"	"	Merino avenue, fro the Merino bridge.		
129.	66	46	44	Weymouth street an	d Lloyd a	venue.
130.	44	"	"	Wayland, Cole and	•	
131.	"	"	66	Branch avenue, f	•	
				street to near the M		•
228.	June	5,	"	North Main street, e	ast side, f	rom Sten-
		•		ton avenue to Third	d street.	
229.	"	"	"	Reservoir avenue, u	est side, f	rom Cres-
				cent street to Algon		
<b>230</b> .	"	66	66	West Park and Bo	th streets.	
				s approved on accou		
April 1	l to J	une	e 30, 1	903, inclusive, was	as follows	<b>:</b> :
				FOR CONSTRUCTION.		
Regular	approp	riati	on		\$31,796 71	
Improve	d sewe	rage	approp	riation	57,703 05	<b>A</b> 00 400 50
				•		\$89,499 76
Chai	rged a	s fo	ollows	<b>.</b>		
Material					\$17,365 24	
					853 00	
					342 80 252 71	
				••••••	131 18	
<b>Patterns</b>	for sev	wer (	castings		83 63	
				and Reservoir avenue.	7 23 2,345 99	

Amount carried forward...... \$21,381 78

·		• •	
Amount brought forward	\$21,381	78	
Sewer in Branch avenue, from Douglas to Veazie			
street	4,573	21	
Sewer in Cemetery street, from North Main to Frost	1,871	28	
Sewer in Charles street, from near Amboy to			
Branch avenue	6,025	16	
Sewer in Doane and Everett avenues	427	51	
Sewer in Jewett street, from Valley about 510 feet			
easterly	642	78	
Sewer in Silver Spring street and Northup avenue.	1,858	26	
Sewer in Tuxedo and Regent avenues	10	19	
Sewer in Wallace street, from near Webster ave-			
nue to Priscilla	507	07	
Sewer in Branch avenue from Veazie street to the			
river, near Vandewater street	11,184	94	
Sewer in Moshassuck Division, Section 27	17,765	58	
Sewer in Moshassuck Division, Section 28	15,928	92	
Sewer in Seekonk Division, Section 29	2,085	15	
Sewer in Seekonk Division, Section 30	5,237	93	
	\$89,499	76	
	<b>4</b> 00,200	•	
For maintenance,	•	<b>*30,560</b>	96
Classified as follows:			
Cleaning basins and sewers	\$5,804	89	
Cleaning basins and sewers	\$5,804 4,940		
Cleaning basins and sewers		70	
Repairing basins and sewers	4,940	70 88	
Repairing basins and sewers	4,940 2,216	70 88 · 94	
Repairing basins and sewers	4,940 2,216 784	70 88 · 94 87	
Repairing basins and sewers	4,940 2,216 784 651	70 88 · 94 87 80	
Repairing basins and sewers.  Cleaning and repairing old drains.  Sundries.  Inspection of connections.  Barn expenses.	4,940 2,216 784 651 456	70 88 · 94 87 80 92	
Repairing basins and sewers.  Cleaning and repairing old drains.  Sundries.  Inspection of connections.  Barn expenses.  Horses, wagons, harnesses, etc.	4,940 2,216 784 651 456 440	70 88 94 87 80 92 15	
Repairing basins and sewers.  Cleaning and repairing old drains.  Sundries.  Inspection of connections.  Barn expenses.  Horses, wagons, harnesses, etc.  Tools.	4,940 2,216 784 651 456 440 437	70 88 · 94 87 80 92 15	
Repairing basins and sewers.  Cleaning and repairing old drains.  Sundries.  Inspection of connections.  Barn expenses.  Horses, wagons, harnesses, etc.  Tools.  Superintendent's salary.	4,940 2,216 784 651 456 440 437 408 56	70 88 · 94 87 80 92 15	
Repairing basins and sewers.  Cleaning and repairing old drains.  Sundries.  Inspection of connections.  Barn expenses.  Horses, wagons, harnesses, etc.  Tools.  Superintendent's salary.  Cleaning private connections.	4,940 2,216 784 651 456 440 437 408 56 35	70 88 · 94 87 80 92 15 00	
Repairing basins and sewers.  Cleaning and repairing old drains.  Sundries.  Inspection of connections.  Barn expenses.  Horses, wagons, harnesses, etc.  Tools.  Superintendent's salary.  Cleaning private connections.  Telephone lines.	4,940 2,216 784 651 456 440 437 408 56 35	70 88 · 94 87 80 92 15 00 00 93	
Repairing basins and sewers.  Cleaning and repairing old drains.  Sundries.  Inspection of connections.  Barn expenses.  Horses, wagons, harnesses, etc.  Tools.  Superintendent's salary.  Cleaning private connections.  Telephone lines.  Office expenses.	4,940 2,216 784 651 456 440 437 408 56 35 20	70 88 94 87 80 92 15 00 00 93 09	
Repairing basins and sewers.  Cleaning and repairing old drains. Sundries.  Inspection of connections. Barn expenses.  Horses, wagons, harnesses, etc.  Tools.  Superintendent's salary.  Cleaning private connections.  Telephone lines.  Office expenses.  Car fares.	4,940 2,216 784 651 456 440 437 408 56 35 20	70 88 94 87 80 92 15 00 00 93 09 00	
Repairing basins and sewers. Cleaning and repairing old drains. Sundries. Inspection of connections. Barn expenses. Horses, wagons, harnesses, etc. Tools. Superintendent's salary Cleaning private connections. Telephone lines. Office expenses. Car fares. Filling cisterns.	4,940 2,216 784 651 456 440 437 408 56 35 20	70 88 94 87 80 92 15 00 00 93 09 00	
Repairing basins and sewers. Cleaning and repairing old drains. Sundries. Inspection of connections. Barn expenses. Horses, wagons, harnesses, etc. Tools. Superintendent's salary. Cleaning private connections. Telephone lines. Office expenses Car fares. Filling cisterns.  Ernest Street Station.	4,940 2,216 784 651 456 440 437 408 56 35 20 10 8	70 88 94 87 80 992 15 00 00 93 09 00 00	
Repairing basins and sewers.  Cleaning and repairing old drains. Sundries.  Inspection of connections. Barn expenses.  Horses, wagons, harnesses, etc.  Tools.  Superintendent's salary. Cleaning private connections. Telephone lines. Office expenses. Car fares. Filling cisterns.  ERNEST STREET STATION.  Coal and wood.	4,940 2,216 784 651 456 440 437 408 56 35 20 10 8	70 88 94 87 80 92 15 00 00 93 09 00 00	
Repairing basins and sewers.  Cleaning and repairing old drains. Sundries.  Inspection of connections. Barn expenses.  Horses, wagons, harnesses, etc.  Tools. Superintendent's salary. Cleaning private connections. Telephone lines. Office expenses. Car fares. Filling cisterns.  ERNEST STREET STATION.  Coal and wood. Engineers.	4,940 2,216 784 651 456 440 437 408 56 35 20 10 8	70 88 94 87 80 92 15 00 00 93 09 00 00 76 20 99	
Repairing basins and sewers.  Cleaning and repairing old drains. Sundries.  Inspection of connections. Barn expenses.  Horses, wagons, harnesses, etc.  Tools.  Superintendent's salary.  Cleaning private connections.  Telephone lines.  Office expenses.  Car fares.  Filling cisterns.  ERNEST STREET STATION.  Coal and wood.  Engineers.  Cleaning screens.	4,940 2,216 784 651 456 440 437 408 56 35 20 10 8	70 88 94 87 80 92 15 00 00 93 09 00 00 76 20 99 67	
Repairing basins and sewers.  Cleaning and repairing old drains. Sundries.  Inspection of connections. Barn expenses.  Horses, wagons, harnesses, etc.  Tools.  Superintendent's salary.  Cleaning private connections.  Telephone lines.  Office expenses.  Car fares.  Filling cisterns.  ERNEST STREET STATION.  Coal and wood  Engineers.  Cleaning screens.  Firemen.	4,940 2,216 784 651 456 440 437 408 56 35 20 10 8 1,850 818 626 411	70 88 94 87 80 92 15 00 00 93 09 00 00 76 20 99 67	
Repairing basins and sewers.  Cleaning and repairing old drains. Sundries.  Inspection of connections. Barn expenses.  Horses, wagons, harnesses, etc. Tools. Superintendent's salary. Cleaning private connections.  Telephone lines.  Office expenses. Car fares. Filling cisterns.  ERNEST STREET STATION.  Coal and wood. Engineers. Cleaning screens. Firemen. Cleaning and repairing pumps.	4,940 2,216 784 651 456 440 437 408 56 35 20 10 8 1,850 818 626 411 285	70 88 94 87 80 92 15 00 00 93 09 00 00 76 20 99 67 10 26	
Repairing basins and sewers.  Cleaning and repairing old drains. Sundries. Inspection of connections. Barn expenses. Horses, wagons, harnesses, etc. Tools. Superintendent's salary. Cleaning private connections. Telephone lines. Office expenses. Car fares. Filling cisterns.  ERNEST STREET STATION.  Coal and wood. Engineers. Cleaning screens. Firemen. Cleaning and repairing pumps. Supplies.	4,940 2,216 784 651 456 440 437 408 56 35 20 10 8 1,850 818 626 411 285	70 88 94 87 80 92 15 00 00 93 09 00 00 76 20 99 67 10 26 92	
Repairing basins and sewers.  Cleaning and repairing old drains. Sundries. Inspection of connections. Barn expenses. Horses, wagons, harnesses, etc. Tools. Superintendent's salary. Cleaning private connections. Telephone lines. Office expenses Car fares. Filling cisterns.  ERNEST STREET STATION.  Coal and wood Engineers Cleaning screens Firemen Cleaning and repairing pumps Supplies. Care of grounds	4,940 2,216 784 651 456 440 437 408 56 35 20 10 8 1,850 818 626 411 285 109 93	70 88 94 87 80 92 15 00 00 93 09 00 00 76 20 99 67 10 26 92	

	-	
SEWAGE PRECIPITATION TANK	<b>s</b> .	
Chemicals	\$5,033 28	
Labor in sludge disposal	2,278 95	
Labor on sewage precipitation	1,519 30	
Electrical power.	526 00	,
Repairs on buildings	200 09	
Repairs on machinery	173 74	
Miscellaneous supplies	133 51	
Fuel	87 55	
Repairs on tanks	61 05 14 16	
Lights		
	<b>\$</b> 30,560 96	
The net expenditure for construction of sewers	to June	
30, 1903, inclusive, was		\$7,403,809 87
The net expenditure for maintenance of sewer	s to June	
30, 1903, inclusive, was		\$979,618 48
Bills deposited with the city treasure	r	
for collection from April 1 to June 30		•
-	,	****
1903, inclusive, amounted to	•	<b>\$</b> 895 <b>42</b>
As follows:		
716 10110W6.		
Miscellaneous work	<b>\$487</b> 82	
Cleaning private connections	74 00	
Empty oil barrels	11 90	
Filling cisterns, etc	9 50	
Sewer material	265 48	
Laying drains to curb	46 72	
_	\$895 42	
During the quarter, coupons from bil	lls	
collected have been returned by the cir		
•	•	
treasurer and receipted for to the amount	nt	
of	•	<b>\$</b> 630 40
As follows:		
Miscellaneous work	<b>\$</b> 223 13	
Cleaning private connections	74 25	
Empty oil barrels	11 90	
Filling cisterns, etc	9 75	
Sewer material.	264 65	
Laying drains to curbstone	46 72	
-		
	\$630 40	
	<b>\$630 40</b>	

#### HIGHWAYS.

Two permits to open streets were issued during the quarter.

June 26th, the proposal of James A. Potter & Co. to furnish and deliver 42,000 feet B. M. yellow pine plank for the highway barn for the sum of \$25.50 per thousand feet, was accepted.

May 26th, statements of the cost of concreting sidewalks in sundry streets, with ten per centum added to cover the cost of assessing and collecting, were certified to the assessors of taxes, aggregating the sum of \$1,332.77.

A statement has been prepared of the cost of curbstones set, ascertained by the commissioner and certified to the board of aldermen for approval, as follows:

During the quarter, the following work was completed:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

May 16 1901 Douglas avenue, from Chao

May 16, 1901, Douglas avenue, from Chad Brown street to Admiral.

- Oct. 16, 1902, Laurel Hill avenue, from end of curbing to Pocasset avenue.
- " " Bolander street, from Abbott to Grandview.
- Nov. 20, "Phillips street, from Hope to Morris avenue.
  "Suffolk street, from Admiral to Salina
  - " " Suffolk street, from Admiral to Salina.
    ec. 18, " Lenox avenue, from Melrose street to Hamil-
- Dec. 18, "Lenox avenue, from Melrose street to Hamilton.
  - " " Hamlin street from Roger Williams park to Elmwood avenue.
  - " " Sears avenue, from Atwells to its northerly termination.

Date of order.

April 16, 1903, Moses Brown street, from Angell to South Angell.

" " Promenade street, north side, from Leland to Calverly.

May 21, " Hazael street, from Douglas avenue to General street.

" " Tuxedo avenue, from Amherst street to Atwells avenue.

#### TO GRADE AND BUILD.

No. of resolution. Date of approval.

232. July 7, 1902, Manton avenue, from Unit street to Chalkstone avenue.

The following work was in progress June 30, 1903, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED. Date of order.

June 18, 1903, Wallace street, from Webster avenue to Priscilla.

To GRADE AND PUT IN GOOD CONDITION.

June 18, 1903, Hastings and Ledge streets.

The following work, ordered by the board of aldermen and city council, had not commenced June 30, 1903, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Nov. 20, 1902, Egan street, from Manton avenue to the bridge.

June 18, 1903, Bath street, from Orms to Calverley.

" " " Calais street, from Jewett to West Park.

**8**88 446 UR

Date of	order	•	
June	18,	1903,	Silver Spring street, from Ashton to Northup
			avenue.
"	"	46	Wayland avenue, from Lloyd to Irving.
"	44	"	Cole avenue, from Lloyd to Irving.
"	"	"	University avenue, from Elmgrove to Slater.

#### TO BE PAVED.

No. of resolution. Date of approval.

231. June 5, 1903, Branch avenue, from Veazie street to bridge near Vandewater.

Bills approved on account of highways from April 1 to June 30, 1903, inclusive, amounted to:

 Regular appropriation
 \$84,591 93

 Special appropriation
 1,855 05

		\$86,446 98
Classified as follows:		
Cleaning streets	\$18,350 63	•
Repairs on unpaved streets	15,827 97	
Crushed stone - material and labor	9,082 28	
Stone — paving and crosswalk	5,285 40	
Repairs on paved streets	4,225 09	
Barn expenses	2,878 91	
Blacksmith and wheelwright shop	2,431 76	
Building driveways, etc	882 76	
Tools, implements, etc	788 27	
Steam rollers — repairs and supplies	684 61	
Labor on material	615 50	
Watering streets	452 13	
Superintendent's salary	442 00	
Horses, wagons, harnesses, etc	223 30	
Repairs on stone crushers	187 02	
Watchman at city yard	156 00	
Sundries		
Office expenses, city yard	67 22	
Car fares	25 00	
Fencing streets — material and labor	24 40	
Telephone lines	5 35	
Repairs on buildings, highway yard	2 10	
Amount carried forward		\$62,742 59
		•

Amount brought forward		\$62,742 59
NEW WORK — BUILDING AND I	REBUILD	<b>-</b>
ING STREETS, ETC.		
SIDEWALKS CURBED AND GUTTERS	PAVED.	
Bolander street, from Abbott to Grandview	\$1,430 71	ì
Douglas avenue, from Chad Brown street to Ad-		
miral	1,855 04 984 76	
Hamlin street, from Roger Williams Park to Elm-	90± 11	,
wood avenue	950 09	)
Hazael street, from Douglas avenue to General	773 90	
street	110 80	
Pocasset avenue	869 96	3
Lenox avenue, from Melrose street to Hamilton	745 90	)
Moses Brown street, from Angell to South Angell.	1,078 54	l .
Oriole avenue, from end of curb to Rhode Island		
avenue, and in Rhode Island avenue from		
Oriole to Angell street	153 68	
Phillips street, from Hope to Morris avenue	1,028 55	3
Primrose street, from Vinton to Vernon	283 91	L
verley	1,452 52	2
mination	1,316 92	}
Suffolk street, from Admiral to Salina	893 73	1
avenue	1,037 23	3
Wallace street, from Webster avenue to Priscilla	125 30	)
		14,980 75
To Grade.		
Manton avenue, from Unit street to Chalkstone		
avenue		4,253 55
To Grade and Put in Good Coni	OITION.	
Hastings and Ledge streets		4,470 09
		\$86,446 98
Rills deposited with the situr torsers		•
Bills deposited with the city treasur		
for collection from April 1 to June 3	0,	
1903, inclusive, amounted to	•	<b>\$</b> 3,556 <b>91</b>
As follows:		

Labor and material	\$2,738	31
Street sweepings	404	30
Boarding horses for other departments	281	40
Manure from barn	72	00
Removing trees	28	50
Repairing buggy	15	00
Discharging cargoes at city wharf	9	00
Empty oil barrels	8	40
-		_
	\$3,556	91

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$2,459 62** 

#### As follows:

Labor and material	\$1,095	99
Blacksmith and harness work for other depart-		
ments	536	38
Street sweepings	422	40
Boarding horses for other departments	281	40
Manure from barn	72	00
Removing trees	28	50
Discharging cargoes at city wharf	18	75
Empty oil barrels	4	20
-	\$2,459	62

SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from April 1 to June 30, 1903, inclusive, amounted to . . .

**\$6,068 19** 

#### Charged as follows:

Granite curbing	\$3,602 34
Concreting sidewalks	1,354 06
Repairing sidewalks and gutters	1,111 79
-	\$6,068 19

Curbing bills deposited with the city treasurer for collection from April 1 to June 30, 1903, inclusive, amounted to

**\$4,503** 70

During the quarter, coupons from curbing bills have been returned by the city treasurer and receipted for to the amount of

\$3,467 75

#### CITY ENGINEER.

Bills approved on account of the city engineer's department from April 1 to June 30, 1903, inclusive, amounted to

**\$11,170** 67

#### Charged as follows:

Salary of city engineer	\$1,125	00
Salaries of assistants		22
Salaries of clerks	729	00
Car fares	406	10
Supplies — drawing material, etc	235	37
Instruments and repairs	86	40
Meteorological instruments and repairs	30	50
Telephone lines	2	68
Sundries		<b>4</b> 0
•	<b>Q11 170</b>	67

#### BRIDGES.

April 20th, the proposal of Charles Cranshaw to build the abutment and wing walls for the Adelaide avenue bridge over the tracks of the New York, New Haven and Hartford Railroad Company, was accepted and a contract subsequently executed. Amount, \$4,219.65.

May 7th, the proposal of Frank Slavin to grade Merino avenue, at the Merino bridge, was accepted.

May 13th, the proposal of E. D. F. Titus to move and relocate buildings and fences on the estate of Patrick Costello, Merino avenue, was accepted. Amount, \$650.00.

June 12th, the proposal of E. D. F. Titus to move and relocate buildings on the estate of Timothy S. Farrell heirs, Merino avenue, was accepted. Amount, \$650.

June 18th, the proposal of William M. Harris, Jr., to furnish white spruce plank, nine-inch widths, at \$20.90 per M. feet, and ten-inch and twelve inch widths at \$22.90 per M. feet, was accepted.

June 18th, the proposal of George A. Keach & Son to furnish white oak plank at \$27.00 per M. feet, was accepted.

The following work was in progress at the end of the quarter, namely:

TO BUILD BRIDGE AND APPROACHES.

No. of resolution. Date of approval.

- 220. June 20, 1902, Over Woonasquatucket river at Egan and Chatlett streets.
- 411. Dec. 19, " Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; River walls between Burnside and Exchange bridges.
  - 73. March 3, 1903, Adelaide avenue, abutments for bridge over tracks of N. Y., N. H. and H. R. R. Co.

**\$6,523 97** 

Charged as follows:

**50** 

Adelaide avenue, bridge abutments—to build	\$2,321	62		
Barn expenses	113	64		
Building at city yard		31		
Cemetery street bridge		38		
Crawford street bridge	156	12		
Eagle street bridge	6	34		
Francis street bridge	21	30		
Geneva bridge	4	20		
Hawkins street bridge	1	85		
Horses, wagons, harnesses, etc	43	53		
Lumber, hardware, etc	182	99		
Park street bridge	1	70		
Point street bridge	283	82		
Red bridge		96		
Rent of keeper's house — Washington bridge		00		
Salaries — Point street bridge		25		
Salaries — Red bridge	513	50		
Salaries — Washington bridge		50		
Smith street bridge	. 5	20		
Stevens street bridge		15		
Sundries		17		
Telephone lines		68		
Tools		37		
Valley street bridge — north span		10		
Valley street bridge — south span		86		
Veazie street bridge		30		
Washington bridge				
· •	\$6,523	97		
	<b>\$</b> 0,020	91		
Bills approved for account of building	$\mathbf{the}$			
Merino bridge, from April 1 to Ju	une			
31, 1903, inclusive, have been paid fr				
the special appropriation for that work	, to			
the amount of			<b>\$8,876</b>	30
	•		40,010	00
Bills approved for account of building	the			
river walls between the Burnside and	Ex-			
change bridges, from April 1 to June	30			
1903, inclusive, have been paid from	the			
special appropriation for that work, to	the			
			G. 11.77	70
amount of			<b>\$</b> 467	18
T				
Bills deposited with the city treasure	r			
for collection from April 1 to June 30	)_			
<del>-</del>				•
	1			
1903, inclusive, for cement barrels sold	٠,			

 $\mathbf{amounted to} \quad . \qquad . \qquad . \qquad . \qquad . \qquad .$ 

l

During the quarter, coupons from bills collected for cement barrels sold, have been returned by the city treasurer and receipted for to the amount of . . .

50

#### PUBLIC LIGHTS.

#### Charged as follows:

Arc lights	\$54,482 06	;
Incandescent lights	11,729 27	1
Welsbach lights	5,970 75	į
Salaries	180 00	)
Barn expenses	72 97	•
Setting and removing gas posts	55 32	2
Gas for street lights	51 87	,
Horses, wagons, harnesses, etc	1 71	
•	<b>\$</b> 72,543 95	6

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$11 18** 

#### As follows:

Setting and removing gas posts	\$9 18
Common lanterns	2 00
	\$11 18

#### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from April 1 to June 30, 1903, inclusive, amounted to . . .

**\$**5,200 03

#### Charged as follows:

Salaries of commissioner and secretary	\$1,970	00
Salaries of office assistants	2,839	92
Installation of card system	312	18
Office supplies		25
Telephone lines	2	68
	&K 200	— —

WALTER F. SLADE,

Commissioner.

[No.	1	7	•
------	---	---	---

During the quarter, coupons from bills collected for cement barrels sold, have been returned by the city treasurer and receipted for to the amount of . . .

50

#### PUBLIC LIGHTS.

Charged as follows:

Viv lights	\$31.165 (P
Incandescent lights	11,729 27
Welstoch lights	5.970 73
Natarrew	180 00
Rotte expenses	72 97
Setting and removing gas posts	22 25
Gas to serior lights	31 87
Horaca wagons harmesses etc	171
•	4~ EL! 05

872.541 96

During the quarters compared from bills collected have been neturned by the city oversome old recorped for to the amount of

**\$11** 18

15 20 205

\*\* (200 × 200 ×

\$11.75

#### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from April 1 to June 30, 1903, inclusive, amounted to . . .

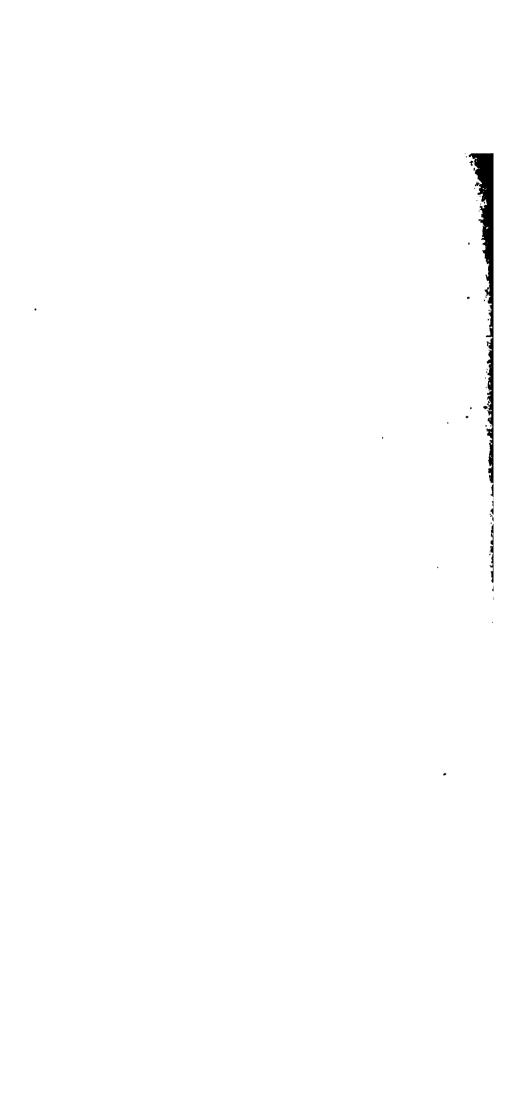
**\$5,200 03** 

#### Charged as follows:

Salaries of commissioner and secretary	\$1,970 00
Salaries of office assistants	2,839 92
Installation of card system	312 18
Office supplies	75 25
Telephone lines	2 68
	<b>\$</b> 5,2 <b>0</b> 0 03

WALTER F. SLADE,

Commissioner.





### EIGHTY-THIRD QUARTERLY REPORT

## Department of Public Works

CITY OF PROVIDENCE, R. I.

QUARTER ENDING SEPTEMBER 30, 1903.



# THE NEW YORK PUBLIC LIBRARY P 45135 ASTOR, LENOX AND TILBER FOUNDATIONS. 1908

#### REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., October 1, 1903.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-third quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending September 30, 1903.

#### WATER WORKS.

August 18th, the proposal of the Eastern Coal Company to furnish and deliver at Pettaconset pumping station 3,000 tons of Georges Creek Cumberland coal at \$4.60 per ton, was accepted.

August 18th, the proposal of John R. White & Son, Incorporated, to furnish and deliver at their yard the anthracite coal needed to June 1, 1904, at \$5.40 per ton, was accepted.

September 2nd, the proposal of the Providence Coal Company to furnish and deliver at Hope pumping station, 500 tons of anthracite coal of No. 2 buckwheat size at \$2.40 per ton, was accepted.

September 25th, the proposal of the Coffin Valve Company to furnish and deliver 50 six-inch water gates, Providence pattern, at \$17.75 each, and 20 eight-inch gates, same pattern, at \$26.50 each, was accepted.

The average daily consumption of water during the last quarter was 13,400,379 gallons.

#### Water pipes were laid during the quarter as follows:

8-інсн.	
In Promenade and Silver Spring streets; Northup and Sunset avenues; and in Dyer and Pawtuxet avenues in the town of Cranston	859.07 feet.
6-inch.	
In Ashton, Barker, Bernard, Chad Brown, Dante, Dora, Grover, Ledge, Moy, O'Connell, Rugby, Sayles, Stanhope and Waterloo streets; Cole, Everett, Pavilion, Silver Lake and University avenues; and in Sefton Drive; Bay View, Edgewood, Meadow, Sylvan and Warwick avenues in the town of Cranston	7,726.57 feet.
Total	8,585.64 feet.
or 1.626 + miles.	

Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch	10,084.00 feet.
30-inch	61,328.30 feet.
24-inch	43,758.29 feet.
20-inch	9,626.59 feet.
16-inch	34,087.51 feet.
12-inch	104,715.98 feet.
10-inch	15,057.14 feet.
8-inch	290,032.84 feet.
6-inch	1,223,534.62 feet.
Total.	1.792.225.27 feet.

or, 339.436 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch 16-inch 12-inch	23,004.37 feet.
Total	29,408.71 feet.
or, 5.569 + miles.	29,408.71 1

Six fire hydrants have been set during the quarter, one in each of the following locations:

Agnes street, east side, 101 feet north of north building line of Oak street.

Brown University, back campus, on range of east line of Engineering building, 88 feet north of said building.

Chad Brown street, north side, 408 feet east of Douglas avenue.

Pawtuxet avenue, Cranston, east side, 25 feet south of south building line of Armington street.

Sefton Drive, Cranston, north side, 382 feet west of west building line of Narragansett Boulevard,

Waterloo street, north side, 269 feet west of west building line of Dexter street.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now nineteen hundred and seventy-eight—eighteen hundred and seventy-seven flush, and one hundred and one post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, one hundred and eighty water meters were set, of which number thirty-eight were to replace other meters. The use of sixteen meters was discontinued.

The following meters were in use at the close of the quarter:

					SIZE.					-:
KIND.	j-in.	}-in.	1-in.	1 <u>}</u> -in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total.
Ball & Fitts	2,208	448	108	11						2,780
Ball & Fitts, rotary			4	7		2	1			14
Crown	9,311	1,064	317	138	35	24	25	1		10,915
Empire	889	127	61	44	13	1	1	! 		1,136
Fales, Jenks & Sons			1							
Gem			*****	*****	13	28	16	3		60
Thomson	4,068	423	75	54	22	7	7	2		4,65
Trident	102		1					ļ	l	103
Venturi									1	,
Worthington	1				1		ļ	ļ		:
i	16,579	2,062	567	254	89	62	50	6		19,67

\$10,187 02

Two plumbers' licenses were issued during the quarter, making the total number one hundred and thirty-one, all of which expire December 31, 1903.

Six hundred and fifty-four permits to do plumbing were issued during the quarter.

One hundred and seventy-two applications for water were made during the quarter, making the total number September 30, 1903, twenty-five thousand nine hundred and thirty-four.

The number of new service stops opened during the quarter was one hundred and eighty-eight.

The total number of service stops opened to September 30, 1903, inclusive, was twenty-five thousand two hundred and seventy-three. The number in actual use September 30, 1903, was twenty-three thousand three hundred and thirty-one.

The amount of bills approved on account of water worksfrom July 1 to September 30, 1903, inclusive, was:

#### Classified as follows:

PETTACONSET	PUMPING	STATION.
-------------	---------	----------

Coal and wood	\$7,185	68	
Engineers	746	42	
Sundries	704	58	
Firemen	651	90	
Superintendence	390	18	
Care of grounds	115	10	
Repairs on boilers	93	99	
Oil, waste and packing	77	05	
Labor on fuel	75	35	
Barn expenses	58	31	
Worthington high-duty engine	45	78	
Cornish engine house	19	46	
Real estate at Pettaconset	18	50	
Corliss pumping engine and house	2	50	
Lights	2	22	
-			10,187 02°

Amount carried forward.....

Amount brought forward		\$10,187 02
Sockanosset Reservoir.		
Watchman	<b>\$190 00</b>	
Sundries	49 40	239 40
		209 40
Hope Pumping Station.		
Coal and wood	<b>\$47</b> 3 16	
Firemen	461 40	
Repairs on boilers	340 94	
Engineers	312 14	
Sundries	279 75	
Lights	73 50	1,940 89
Hope Reservoir.		
Watchman	<b>\$</b> 213 <b>7</b> 5	
Sundries	81 47	
-		295 22
FRUIT HILL RESERVOIR.		
Sundries	<b>\$488</b> 23	
Watchman	213 75	E01 0
		701 98
METER DEPARTMENT.		
Water meters	<b>\$</b> 2,528 71	
Setting and repairing meters	1,130 65	3,659 36
Pipe Line and Service Stol	P8.	
Repairs	\$4,861 36	
Superintendence — salaries	885 53	
-		5,746 89
PIPE YARD.		
Laying water pipe	<b>\$2,617</b> 10	
Laying service pipe	1,434 53	
Special castings	578 44	
Labor on and carting pipe	119 25	
Tools	54 79	
Fire hydrants, boxes and covers	20 60	
Taps and stops	11 14	
Office expenses	6 30	
Patterns for special castings		4,844 5
Amount carried forward		<b>\$27,615</b> 29

		<b>\$</b> 27,615
MISCELLANEOUS.		
Clerks' and inspectors' salaries	\$1,612 29	
Barn expenses	1,210 12	
Prevention of defilement of the Pawtuxet	549 99	,
Transferring water service records to card system.	314 30	
Horses, wagons, harnesses, etc	217 73	
Telephone lines	137 68	
Inspection of water pipes with reference to elec-	40 20	
trolysis	103 50	
Sundries	83 86	
Car fares	50 00 38 71	
Public drinking fountains and troughs  Real estate in Lincoln	27 50	
real estate in Lincoln		4,345 6
·		\$31,960 9
For construction,	. 4	18,412 3
Charged as follows:		
Installation of sand filtration plant at Pettaconset.	\$18,412 37	
m	en.	
The total expanditures to sentember :		
The total expenditures to September 8	-	45 588 0
• •	-	15,577 6
1903, inclusive, was	. *9,5	515,577 6
1903, inclusive, was	. <b>¥9,</b> 5 July 1 to	
1903, inclusive, was	. <b>‡</b> 9,5 July 1 to	
1903, inclusive, was	#9,5 July 1 to er 30, 1903,	\$24,354 (
1903, inclusive, was	. <b>*</b> 9,5	\$24,354 6 \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was	#9,5 July 1 toer 30, 1903,to Septem-	\$24,354 <b>6</b> \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was	#9,5 July 1 toer 30, 1903,to Septem-	\$24,354 ( \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was	#9,5 July 1 to er 30, 1903, to Septem-	\$24,354 ( \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was	#9,5 July 1 to	\$24,354 ( \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was	#9,5 July 1 to	\$24,354 ( \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was  The net expenditure for maintenance to Septemb inclusive, was  The net expenditure for construction from July 1 ber 30, 1903, inclusive, was  The value of the water works syste January 1, 1903, as estimated by the circumstance of the section of the circumstance of the circu	#9,5 July 1 to	\$24,354 <b>6</b> \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was  The net expenditure for maintenance to September inclusive, was  The net expenditure for construction from July 1 ber 30, 1903, inclusive, was  The value of the water works syste January 1, 1903, as estimated by the congineer, was as follows:	#9,5 July 1 to er 30, 1903, to Septem- nn,	\$24,354 <b>6</b> \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was  The net expenditure for maintenance to Septemb inclusive, was  The net expenditure for construction from July 1 ber 30, 1903, inclusive, was  The value of the water works syste January 1, 1903, as estimated by the congineer, was as follows:	#9,5 July 1 to er 30, 1903, to Septem- nn,	\$24,354 (
The net expenditure for maintenance from September 30, 1903, inclusive, was  The net expenditure for maintenance to Septemb inclusive, was  The net expenditure for construction from July 1 ber 30, 1903, inclusive, was  The value of the water works syste January 1, 1903, as estimated by the creating inclusive, was as follows:  Pettaconset pumping station	#9,5 July 1 to	\$24,354 <b>6</b> \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was  The net expenditure for maintenance to Septemb inclusive, was  The net expenditure for construction from July 1 ber 30, 1903, inclusive, was  The value of the water works syste January 1, 1903, as estimated by the circumstance of the setting the systematical sy	#9,5 July 1 to	\$24,354 <b>6</b> \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was	#9,5 July 1 to	\$24,354 <b>6</b> \$1,958,456 7
The net expenditure for maintenance from September 30, 1903, inclusive, was	#9,5 July 1 to	\$24,354 ( \$1,958,456 7

Bills deposited with the city treasure for collection from July 1 to September 8	30,	
1903, inclusive, amounted to	. *	78,374 37
As follows:		
Water.  Labor and material, laying services, etc.,  Water meters.  Setting and repairing meters.  Building subway for Butler Exchange Company. Old scrap iron.  Rent of real estate.  Repairs on pipe line.  Penalties.  Permanently closing service stops.	\$69,510 10 3,455 24 2,684 75 1,694 18 429 83 364 86 107 25 55 99 48 00 15 00	
Repairing hot water tank for the highway department	6 17 3 00	<b>\$</b> 78,374 37
collected have been returned by the c	•	
treasurer and receipted for to the amount	of \$	78,718 21
As follows:  Water	of \$\frac{\\$}{8}\$ \$71,063 90 2,713 75 2,546 96 1,632 65 364 86 267 59 75 50 48 00 5 00	78,718 21 \$78,718 21
As follows:  Water Water meters. Labor and material, laying services, etc Setting and repairing meters Old scrap iron. Repairs on pipe line. Rent of real estate Penalties.	\$71,063 90 2,713 75 2,546 96 1,632 65 364 86 267 59 75 50 48 00 5 00	
As follows:  Water Water meters. Labor and material, laying services, etc Setting and repairing meters Old scrap iron. Repairs on pipe line. Rent of real estate Penalties. Permanently closing service stops.  The amount of bills approved on accoud of water works for the fiscal year endi	\$71,063 90 2,713 75 2,546 96 1,632 65 364 86 267 59 75 50 48 00 3 00	

\$52,704 75

#### PETTACONSET PUMPING STATION. Fuel oil.... \$15,539 42 Coal and wood..... 13,235 57 Sundries..... 2,844 25 Engineers.... 2,492 69 Piremen..... 2,104 75 Superintendence..... 1.421 07 Installation of fuel oil..... 1,117 94 Barn expenses.... 558 47 Worthington high-duty engine..... 555 90 Labor on fuel..... 538 75 Care of grounds..... 522 68 Repairs on boilers..... **458 66** Oil, waste and packing..... 378 01 Real estate..... 63 30 Corliss pumping engine and house..... 53 19 Lights..... 38 16 Cornish engine house..... 26 30 \$41.949 11 SOCKANOSSET RESERVOIR. Watchman.... \$730 00 Sundries..... 484 44 1,214 44 HOPE PUMPING STATION. ·Coal and wood..... \$2,001 35 Firemen..... 1,739 70 Engineers..... 1,199 28 Sundries..... 420 29 Repairs on boilers..... 357 88 Lights.... ..... 289 80 Holly pumping engine..... 85 91 Care of grounds..... 34 25 Oil, waste and packing..... 1 33 6.129 81 HOPE RESERVOIR. Watchman.... \$821 25 338 25 Sundries..... 1,159 50 FRUIT HILL RESERVOIR. .Sundries...... \$1,430 64 821 25 2.251 89

Amount carried forward.....

Amount brought forward		<b>\$</b> 52, <b>7</b> 04	75
METER DEPARTMENT.			
Water meters	\$12,709 53 4,890 35	17,599	88
PIPE LINE AND SERVICE STO	PS.		
Repairs			
Superintendence — salaries	3,405 71	19,206	17
PIPE YARD.			
Cast iron water pipe	\$19,007 94		
Laying water pipe	11,670 43		
Laying service pipe	5,108 79		
Special castings	4,065 91		
Fire hydrants, boxes and covers	2,996 19		
Service pipe	2,496 36		
Stop valves	1,441 20		
Taps and stops	1,306 71		
Labor on and carting pipe	846 16		
Pig lead and tin	766 18 521 41		
Pipe yard, office expenses	152 16		
Patterns for special castings	76 49		
Repairs on pipe yard buildings	15 40		
		50,471	3;
MISCELLANROUS.			
Town of Cranston, tax	<b>\$7,077</b> 69		
Clerks' and inspectors' salaries	6,194 58		
Barn expenses.	3,212 20		
Prevention of defilement of the Pawtuxet	2,102 15		
Transferring water service records to card system.  Horses, wagons, harnesses, etc	758 95		
Telephone lines	716 38 550 72		
Sundries	411 99		
Town of North Providence, tax			
Car fares	375 00		
Inspection of water pipe with reference to electroly-			
sis	153 60		
Public drinking fountains and troughs			
	(19.00		
Real estate at Pawtuxet	63 00		

Charged as follows:

Installation of sand filtration plant at Pettaconset. \$59,624 26

#### SEWERS.

During the quarter ending September 30, 1903, three hundred and forty-one permits were issued to drain layers — one hundred and eighty-five for new work and one hundred and fifty-six for extension and repairs of drains.

Two drain layers' licenses were issued during the quarter, making the total number one hundred and forty-five, all of which expire December 31, 1903.

July 11th, the proposal of Frederick E. Shaw to furnish and deliver fifteen and twelve inch sewer pipe was accepted.

July 16th, the proposal of J. H. Lane and Company to furnish and deliver ten thousand yards No. 13 chain cloth for 24% cents per yard, was accepted.

August 18th, the proposal of the Eastern Coal Company to furnish and deliver at the Ernest street pumping station 1,100 tons of Georges Creek, New River or Pocahontas coal, at \$4.60 per ton of 2,000 pounds, and their proposal to furnish such quantity of Cumberland, lump and run of mine coal as may be needed to June 1, 1904, at \$4.50 and \$4.00 per ton of 2,000 pounds respectively, at their yard, was accepted.

The proposal of the Weaver Coal and Coke Company to furnish and deliver at the sewage precipitation tanks the anthracite coal needed to June 1, 1904, at \$5.65 per ton of 2,000 pounds, was accepted.

The proposal of John R. White & Son, Incorporated, to

## EIGHTY-THIRD QUARTERLY REPORT

OF THE

## Department of Public Works

CITY OF PROVIDENCE, R. I.

QUARTER ENDING SEPTEMBER 30, 1903.



The Providence Press: FARNHAM, CITY PRINTERS,

Date of completion.

. Aug. 22, 1903.

During the quarter, the construction of the following sewers was completed, namely:

April 7, 1903, Branch avenue, 132. from l'eazie street to the river - storm sewer, . July 1, 1903. 131. Branch avenue, from near Langdon street to near the Moshassuck river, . . Sept. 30, 1903. 133. Charles street, from near Amboy to Branch arenue, . July 2, 1903. 134. Silver Spring street and

Work upon the following sewers was in progress at the close of the quarter, namely:

Northup avenue. .

No. of resolution. Date of approval.

No. of resolution. Date of approval.

350. Nov. 6, 1902, Branch avenue, from Douglas to Veazie street.

127. April 7, 1903, Atwells avenue, Pine and Broad streets.

128. " " Merino avenue, from Manton to near the Merino bridge.

129. " " Weymouth street and Lloyd avenue.

130. " " Wayland, Cole and University avenues.
136. " " Section 30, Seckonk Division, Improved

36. " " Section 30, Seckonk Division, Improved Sewerage System.

228. June 5, " North Main street, east side, from Stenton arenue to Third street.

Work upon the following sewers, completing the work ordered by the city council, had not commenced September 30, 1903, namely:

## REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., October 1, 1903.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-third quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending September 30, 1903.

#### WATER WORKS.

August 18th, the proposal of the Eastern Coal Company to furnish and deliver at Pettaconset pumping station 3,000 tons of Georges Creek Cumberland coal at \$4.60 per ton, was accepted.

August 18th, the proposal of John R. White & Son, Incorporated, to furnish and deliver at their yard the anthracite coal needed to June 1, 1904, at \$5.40 per ton, was accepted.

September 2nd, the proposal of the Providence Coal Company to furnish and deliver at Hope pumping station, 500 tons of anthracite coal of No. 2 buckwheat size at \$2.40 per ton, was accepted.

September 25th, the proposal of the Coffin Valve Company to furnish and deliver 50 six-inch water gates, Providence pattern, at \$17.75 each, and 20 eight-inch gates, same pattern, at \$26.50 each, was accepted.

The average daily consumption of water during the last quarter was 13,400,379 gallons.

16	CITY DOCUMENT.			Ne.	<b>20.</b>
Amo	unt brought forward	\$18,892	75		
Sewer in 1	North Main street, east side, from Sten-				
	enue to Third street	35	00		
Sewer in S	ilver Spring street and Northup avenue.	4,465	34		
Sewer in T	Tuxedo and Regent avenues	5	00		
	Wallace street, from Webster avenue				
	cilla	3	75		
	Vayland, Cole, and University avenues.	1,091			
Sewer in B	Veymouth street and Lloyd avenue Branch avenue, from Veazie street to the	260	03		
river n	ear Vandewater street	766	<b>6</b> 6		
	Ioshassuck Division, Section 27	1,355	75		
	Ioshassuck Division, Section 28	1,449	41		
Sewer in S	eekonk Division, Section 30	8,591	47		
		\$36,919	19		
For main	ntenance,		<b>\$</b> 31	,991	15
Classi	fied as follows:				
•	pasins and sewers	<b>\$</b> 6,126			
	basins and sewers	4,739			
-	and repairing old drains	1,960			
_	•••••	843			
	nses	806			
	of connections	731			
	t	701			
	perintendent	461			
	agons, harnesses, etc	277	00		
0.	lines		93		
-	nses		73		
-	gate-house		40		
•	terns, etc		35		
	buildings	4	45		
	ERNEST STREET STATION.				
Coal and w	rood	1,268	71		
		874			
• /	creens	641			
Firemen		445	08		
Cleaning a	and repairing pumps	363	28		
	boilers	181	96		
Care of gro	ounds	132	43		
Supplies		55	90		
			82		
	ildings		27		
-	engines	9	66		
Repairs on	buildings, sewer maintenance yard		28		
Amo	unt carried forward	\$20.776	90		

July 15th, a schedule of unpaid curbing bills was certified to the assessors of taxes for collection, amounting to \$10.153.95.

August 18th, the proposal of the Connecticut Trap Rock Quarries to furnish and deliver 1,000 tons of crushed stone at \$1.15 per ton, was accepted, and the order was increased September 22d 1,000 tons additional.

August 18th, the proposal of the Eastern Coal Company to furnish at their yard the Cumberland coal required to June 1, 1904, at \$4.00 and \$4.50 per net ton for run of mine and lump respectively, was accepted.

August 18th, the proposal of John R. White & Son, Incorporated, to furnish at their yard the anthracite coal required to June 1, 1904, at \$5.40 per net ton, was accepted.

September 17th, a contract was awarded to Edward W. Everson, and subsequently executed, for laying an asphalt pavement on Branch avenue, from Veazie street to the bridge near Vandewater street, the estimated amount of which is \$10,485.55.

During the quarter, the following work was completed:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

June 18, 1903. Wallace street, from Webster avenue to Priscilla.

- " " " Calais street, from Jewett to West Park.
- " " Silver Spring street, from Ashton to Northup
  arenue.

The following work was in progress September 30, 1903, namely:

\$85,878 68

\$84,569 27

The amount of bills approved on account of sewers for the fiscal year ending September 30, 1903, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation....

#### Improved sewerage appropriation..... 179,902 85 \$265,781 53 Charged as follows: Material..... **\$4**5,**64**9 79 Contract reservations..... 3,785 00 Additional catch-basins..... 1.725 20 Testing cement ...... 1,189 98 982 72 Patterns for special castings..... 83 63 Tools..... 21 70 Sundries, improved sewerage system..... 20.98 Sewer in Algonquin street and Reservoir avenue and in right of way,..... 2,345 99 Sewer in Atwells avenue, Pine and Broad streets. 129 84 Sewer in Barnes street, from low point in said 170 44 street to Thayer. ..... Sewer in Bellevue avenue, from near Elmwood to Bucklin street..... 9 00 Sewer in Branch avenue, from Douglas to Veazie 6,772 44 **xtreet** ..... Sewer in Branch avenue, from near Langdon street 2.795 14 Sewer in Cemetery street, from North Main to Frost 1,871 28 Sewer in Charles street, from near Amboy to Branch avenue... 6,927 84 Sewer in Doane and Everett avenues..... 2.254 92Sewer in Douglas and Camden avenues..... 5,492 93 Sewer in Hamlin street, from Elmwood avenue to Roger Williams park..... 9.00 Sewer in Jewett street, from Valley about 510 feet easterly..... 642.78Sewer in Laurel Hill avenue, from Pocasset to Plainfield street..... 7.50 Sewer in Massachusetts avenue, from Virginia to 1,284 32 Broad street..... Sewer in Merino avenue, from Manton to near Merino bridge..... 42 00 Sewer in Moses Brown street, from Angell to South Angell ..... 319.85 Sewer in North Main street, east side, from Stenton avenue to Third street..... 35,00

Amount carried forward.....

Amount brought forward	\$84,569	. 97	
Sewer in Oriole and Rhode Island avenues	<b>76</b> 9	83	
Sewer in Oxford street, from near Eddy to Allens			
avenue	813	40	
Sewer in Phillips street, from near Hope to Morris			
avenue	1,784	32	
Sewer in President avenue, from Arlington to			
Wayland	2,101	46	
Sewer in Primrose, Walnut and Byron streets	1,450	27	
Sewer in Sears avenue, from Atwells to Rangeley.	2,480	91	
Sewer in Silver Spring street and Northup avenue	6,323	60 '	
Sewer in Smithfield and Branch avenues		00	
Sewer in Suffolk street, from Salina to Admiral		25	
Sewer in Summit avenue, from Fourth street to			
Seventh	1,474	19	
Sewer in Tenth street, from North Main to High-	1,717		
land avenue		. 00	
Sewer in Tuxedo and Regent avenues	-		
• • • • • • • • • • • • • • • • • • • •	1,364	90	
Sewer in Wallace street, from near Webster avenue			
to Priscilla	538		
Sewer in Wayland, Cole and University avenues	1,091		
Sewer in Weymouth street and Lloyd avenue	260		
Sewer in Woodbine and Grandview streets	18	00	
Sewer in Branch avenue, from Veazie street to the			
river near Vandewater street	11,951		
Sewer in Moshassuck Division, Section 27	60,475		
Sewer in Moshassuck Division, Section 28	58,315		
Sewer in Seekonk Division, Section 29	16,147	47	
Sewer in Seekonk Division, Section 30	13,832	40	
-	\$265,781	53	
For maintenance,		<b>\$116,976</b>	98
Classified as follows:			
Cleaning basins and sewers	\$20,416	85	
Repairing basins and sewers	14,095		
Cleaning and repairing old drains	10,276		
Inspection of connections	2,710		
Barn expenses	2,235		
Tools	2,203		
Sundries			
Salary—superintendent	1,933		
• •	1,772		
Horses, wagons, harnesses, etc	1,044		
Use of water		00	
Cleaning private connections	184	. 00	

Amount carried forward ...... \$57,773 61

Bills deposited with the	city	treasu	ırer		
for collection from July 1 to	Septe	ember	30,		
1903, inclusive, amounted to		•	•	<b>\$</b> 6, <b>464</b> (	<b>16</b> .

## . As follows:

Labor and material	\$3,762 80
ments	1,062 59
Building driveways, etc	833 <b>62</b>
Boarding horses for other departments	283 G2
Street sweepings	256 50
Use of steam rollers	148 07
Manure from barn	70 00
Discharging cargoes at city wharf	29 25
Removing trees	12 00
Empty oil barrels	5 <b>6</b> 0
-	\$6,464 05

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$4,685** 07

## As follows:

Labor and material	<b>\$</b> 3,133-31
ments	549 10
Building driveways, etc	·109 60
Boarding horses for other departments	283 62
Street sweepings	262 50
Manure from barn	70 00
Use of steam rollers	30 00
Discharging cargoes at city wharf	29 25
Removing trees	12 00
Empty oil burrels	5 60
-	84,685 (6

Bibs approved on account of highways for the fiscal year ending September 30, 1903, inclusive, amounted to:

Regular appropriation.	,	\$401.728 72	
Special appropriation	•	5,096-38	
• • •			<b>\$39</b> 6,825_10

July 15th, a schedule of unpaid curbing bills was certified to the assessors of taxes for collection, amounting to \$10,153.95.

August 18th, the proposal of the Connecticut Trap Rock Quarries to furnish and deliver 1,000 tons of crushed stone at \$1.15 per ton, was accepted, and the order was increased September 22d 1,000 tons additional.

August 18th, the proposal of the Eastern Coal Company to furnish at their yard the Cumberland coal required to June 1, 1904, at \$4.00 and \$4.50 per net ton for run of mine and lump respectively, was accepted.

August 18th, the proposal of John R. White & Son, Incorporated, to furnish at their yard the anthracite coal required to June 1, 1904, at \$5.40 per net ton, was accepted.

September 17th, a contract was awarded to Edward W. Everson, and subsequently executed, for laying an asphalt pavement on Branch avenue, from Veazie street to the bridge near Vandewater street, the estimated amount of which is \$10.485.55.

During the quarter, the following work was completed:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED. Date of order.

June 18, 1903, Wallace street, from Webster avenue to Priscilla.

- " " Calais street, from Jewett to West Park.
- " " Silver Spring street, from Ashton to Northup avenue.

The following work was in progress September 30, 1903, namely:

**\*8,215** 6:

	<b>\$18,24</b> 9 57	Amount brought forward
		Oriole avenue, from end of curb to Rhode Island
		avenue, and in Rhode Island avenue from
	3,018 73	Oriole to Angell street
		Oxford street, from Devine westerly about 50 feet
	319 10	to the present curbing
	1,458 41	Phillips street, from Hope to Morris avenue
		President avenue, northerly side, from Wayland
	778 93	westerly about 180 feet
	1,024 58	Primrose street, from Vinton to Vernon
		Promenade street, north side, from Leland to Cal-
	2,726 00	verly
	78 53	Regent avenue, from Harold street to River avenue
		Sears avenue, from Atwells to its northerly ter-
	1,492 37	mination
	2,562 35	Silver Spring street, from Ashton to Northup avenue
	893 73	Suffolk street, from Admiral to Salina
	942 48	Tenth street, from North Main to Highland avenue Tuxedo avenue, from Amherst street to Atwells
	1,280 93	avenue
	1,370 85	Wallace street, from Webster avenue to Priscilla
\$:18,856 <b>=</b>	2,660 24	Woodbine street, from North Main to Camp
	i <b>.</b>	Pave with Granite Blocks
1,011 5	•••••	Promenade street, from Park to Leland
ous	R BITUMING	PAVE WITH GRANITE BLOCKS, ASPHALT, O MACADAM.
	andewater	Branch acenne, from Veazie street to bridge near V
9.0		street
		•
		Grade.
8,267 0	ue	Manton avenue, from Unit street to Chalkstone aven
	DITION.	To Grade and Put in Good Con
8,902 1		Hastings and Ledge streets
\$306,825 1		

## SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from July 1 to September 30, 1903, inclusive, amounted to . . . .

Charged as follows:				
Granite curbing	\$4,706 0 2,885 0 624 6	)1		
-	\$8,215 6	 31		
Curbing bills deposited with the ci	ity			
treasurer for collection from July 1				
September 30, 1903, inclusive, amounted		1	215	84
As follows:				
Granite curbing	\$151 7	76		
Concreting sidewalks	64 (			
·	\$215 8	 84		
collected have been returned by the c	•		• • • •	
treasurer and receipted for to the amount  As follows:	•	· •	k158	49
treasurer and receipted for to the amount	•		k158	49
As follows:  Curbing bills	of \$101 -	46 11	k158	49
As follows:  Curbing bills	of \$101	46 11	<b>k</b> 158	49
As follows:  Curbing bills	of \$101 -	46 11 92	k158	49
As follows:  Curbing bills	\$101 - 32   24   5   5   5   5   5   5   5   5   5	46 11 92 — 49	,476	
As follows:  Curbing bills.  Granite curbing.  Concreting sidewalks.  Bills approved on account of sidewal and curbing for the fiscal year enditing.	\$101 - 32   24   5   5   5   5   5   5   5   5   5	46 11 92 — 49		
As follows:  Curbing bills.  Granite curbing.  Concreting sidewalks.  Bills approved on account of sidewa and curbing for the fiscal year endi September 30, 1903, inclusive amounted Charged as follows:	\$101 - 32 - 24 - \$158 - lks ng to	46 11 92 <del>-</del> 49		
As follows:  Curbing bills  Granite curbing  Concreting sidewalks  Bills approved on account of sidewal and curbing for the fiscal year ending september 30, 1903, inclusive amounted	\$101 - 32 - 24 - \$158 - lks ng to	#19 #19 #19		
As follows:  Curbing bills  Granite curbing  Bills approved on account of sidewa and curbing for the fiscal year endi September 30, 1903, inclusive amounted Charged as follows:  Granite curbing	\$101 - 32 - 24 - 5158 - 1ks ng to	46 111 922 — 49 *19		

	<b>\$</b> 18,249 57	Amount brought forward
		Oriole avenue, from end of curb to Rhode Island avenue, and in Rhode Island avenue from
	3,018 73	Oriole to Angell street
	319 10	to the present curbing
	1,458 41	Phillips street, from Hope to Morris avenue  President avenue, northerly side, from Wayland
	778 93	westerly about 180 feet
	1,024 58	Primrose street, from Vinton to Vernon
		Promenade street, north side, from Leland to Cal-
	2, <b>726 0</b> 0	verly
	78 53	Regent avenue, from Harold street to River avenue
		Sears avenue, from Atwells to its northerly ter-
	1,492 37	mination
	2,562 35	Silver Spring street, from Ashton to Northup avenue
	893 73	Suffolk street, from Admiral to Salina
	942 48	Tenth street, from North Main to Highland avenue Tuxedo avenue, from Amherst street to Atwells
	1,280 93	avenue
	1,370 85	Wallace street, from Webster avenue to Priscilla
\$38,856 80	2,660 24	Woodbine street, from North Main to Camp
	s.	Pave with Granite Blocks
1,011 55	• • • • • • • • • • • • • • • • • • • •	Promenade street, from Park to Leland
ors	or Bitumino	PAVE WITH GRANITE BLOCKS, ASPHALT, C MACADAM.
9 00		Branch avenue, from Veazie street to bridge near V street
		GRADE.
8,267 01	nue	Monton avenue, from Unit street to Chalkstone aver
	DITION.	To Grade and Put in Good Con
8,902 17		Hastings and Ledge streets

## SIDEWALKS AND CURBING.

 Charged as follows:

Granite curbing	\$4,706 C0 2,885 01 624 <b>6</b> 0		
-	\$8,215 61		
Curbing bills deposited with the citreasurer for collection from July 1	•		
September 30, 1903, inclusive, amounted		<b>\$215</b>	84
As follows:			
Granite curbing	\$151 76 64 08		
	\$215 84		
During the quarter, coupons from bi- collected have been returned by the c- treasurer and receipted for to the amount	ity	<b>%</b> 158	49
As follows:			
Curbing bills  Granite curbing  Concreting sidewalks	\$101 46 32 11 24 92		
	\$158 49		
Bills approved on account of sidewa and curbing for the fiscal year end September 30, 1903, inclusive amounted	ing	19,476	55
Charged as follows:			
Granite curbing.  Concreting sidewalks.  Repairing sidewalks and gutters	\$10,429 03 6,069 27 2,978 25		

\$19,476 55

Amount brought forward	<b>\$</b> 18,249 57	•
Oriole arenue, from end of curb to Rhode Island avenue, and in Rhode Island avenue from		
Oriole to Angell street	3,018 73	3
(ixford street, from Devine westerly about 50 feet to the present curbing	319 10	1
Phillips street, from Hope to Morris avenue  President avenue, northerly side, from Wayland	1,458 41	
westerly about 180 feet	778 9¢	3
Primrose street, from Vinton to Vernon	1,024 58	•
Promenade street, north side, from Leland to Calverly	0.700.00	•
Regent avenue, from Harold street to River avenue Sears avenue, from Atwells to its northerly ter-	2,726 00 78 5	
mination	1,492 37	7
Silver Spring street, from Ashton to Northup avenue	2,562 33	
Suffolk street, from Admiral to Salina	893 73	
Tenth street, from North Main to Highland avenue Tuxedo avenue, from Amherst street to Atwells	942 48	•
avenue	1,280 9	3
Wallace street, from Webster avenue to Priscilla	1,370 8	
Woodbine street, from North Main to Camp	2,660 24	\$18,856 80
PAVE WITH GRANITE BLOCKS		
		4 044 ==
Promenade street, from Park to Leland	• • • • • • • • • • • • • • • • • • • •	1,011 55
PAVE WITH GRANITE BLOCKS, ASPHALT, of Macadan.	DE BITUMI	Nous
Branch avenue, from Veazie street to bridge near V		
street,.,,,	********	9:00
GHADE.		
Manton avenue, from Unit street to Chalkstone aven	(ao	8,267 01
To GRADE AND PVO. 0 Laco	DITTON.	
Hastings and Ledge streets	-	8,902 17
		\$306,825 10
		20001000
SIDEWALKS	J. ONG.	
Bills approved on accord		
and curbing from July I to *		
1903, inclusive, rmounted to		+8:215 61

Charged as follows:			
Granite curbing	\$4,706 C0 2,885 01 624 60		
_	\$8,215 61		
Curbing bills deposited with the citreasurer for collection from July 1 ceptember 30, 1903, inclusive, amounted	to	<b>‡</b> 215	84
As follows:			
Concreting sidewalks	\$151 76 64 08		
-	\$215 84		
During the quarter, coupons from bi	ity	<b>¥</b> 158	49
As follows:			
Carbing bills	\$101 46 32 11 24 92		
	\$158-49		
Bills approved on account of sidewa and curbing for the fiscal year endi September 30, 1903, inclusive amounted	ing	19.476	อ้อ
Charged as follows:			
Granite curbing. Concreting sidewalks. Repairing sidewalks and gutters.	\$10,429 03 6,069 27 2,978 25		
	\$19,476 55		

## CITY ENGINEER.

Bills approved on account of the city engineer's department from July 1 to September 30, 1903, inclusive, amounted to .

**\$12,903** 06

## Charged as follows:

Salaries of assistants.       9,993 77         Salaries of clerks.       824 47         Supplies — drawing material, etc.       413 96         Instruments and repairs.       335 50         Car fares.       202 90         Carriage hire.       4 00         Telephone lines.       2 68         Sundries.       50
Supplies — drawing material, etc.       413 %         Instruments and repairs.       335 50         Car fares.       202 90         Carriage hire.       4 00         Telephone lines.       2 68
Instruments and repairs         335 50           Car fares         202 90           Carriage hire         4 00           Telephone lines         2 68
Car fares       202 90         Carriage hire       4 00         Telephone lines       2 68
Carriage hire
Telephone lines
Sundries so
Dundercon
Meteorological instruments and repairs 25
<b>2</b> 10 cm o

**\$**12,903 06

Bills approved on account of city engineer's department for the fiscal year ending September 30, 1903, inclusive, amounted to

\$47,577 31

## Charged as follows:

Salary - city engineer	\$4,500 00
Salaries of assistants	37,255 77
Salaries of clerks	3,167-69
Car fares	1,012 60
Supplies - drawing materials, etc	999-15
Instruments and repairs	549 65
Meteorological instruments and repairs	73 90
Telephone lines	10 72
Carriage hire	4 00
Sundries	3 83

\$47,577 31

#### BRIDGES.

August 18th, the proposal of John R. White & Son, Incorporated, to furnish and deliver the egg anthracite coal required to June 1, 1904, at \$5.85 per ton of 2,000 pounds, was accepted.

August 18th, the proposal of the Eastern Coal Company to furnish and deliver as required to June 1, 1904, Georges Creek, New River or Pocahontas lump coal at \$5.00 per ton of 2,000 pounds, was accepted.

The following work was in progress at the end of the quarter, namely:

#### TO BUILD BRIDGE AND APPROACHES.

No. of resolution. Date of approval.

- 220. June 20, 1902, Over Woonasquatucket river at Egan and Chatlett streets.
- 411. Dec. 19, " Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; River walls between Burnside and Exchange bridges.

Adelaide avenue, bridge abutments - to build	\$3,677 22
Barn expenses	201 95
Branch avenue bridge	3 90
Branch avenue culvert	6 11
Burnside bridge	5 24
Car fares	25 00
Cemetery street bridge	1 10
Amount carried forward	\$3,920 52

## CITY ENGINEER.

Bills approved on account of the city engineer's department from July 1 to September 30, 1903, inclusive, amounted to .

\$12,903 O6

## ('harged as follows:

Salary — city engineer	\$1,125	00
Salaries of assistants	9,993	77
Salaries of clerks	824	47
Supplies — drawing material, etc	413	99
Instruments and repairs	335	50
Car fares	202	90
Carriage hire	4	00
Telephone lines	2	68
Sundries		50
Meteorological instruments and repairs		25
	<b>810 000</b>	

\$12,903 06

\$47,577 31

Bills approved on account of city engineer's department for the fiscal year ending September 30, 1903, inclusive, amounted to

\*47,577 31

Salary - city engineer	<b>\$4,50</b> 0 00
Salaries of assistants	37,255 77
Salaries of clerks	3,167-69
Car fares	1,012 60
Supplies drawing materials, etc	999-15
Instruments and repairs	549-65
Meteorological instruments and repairs	73.90
Telephone lines	10.72
Carriage hire	4 00
Sundries	3 83
-	

#### BRIDGES.

August 18th, the proposal of John R. White & Son, Incorporated, to furnish and deliver the egg anthracite coal required to June 1, 1904, at \$5.85 per ton of 2,000 pounds, was accepted.

August 18th, the proposal of the Eastern Coal Company to furnish and deliver as required to June 1, 1904, Georges Creek, New River or Pocahontas lump coal at \$5.00 per ton of 2,000 pounds, was accepted.

The following work was in progress at the end of the quarter, namely:

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No. of resolution. Date of approval.

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- 411. Dec. 19, " Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; River walls between Burnside and Exchange bridges.

Adelaide avenue, bridge abutments - to build	\$3,677	22
Barn expenses	201	95
Branch avenue bridge		90
Branch avenue culvert	6	11
Burnside bridge	. 5	24
Car fares		00
Cemetery street bridge	1	10
Amount carried forward	\$3 990	50

Amount brought forward	\$3,920	52
Charles street railroad bridge	51	40
Eagle street bridge	5	75
Exchange bridge	7	90
Francis street bridge	99	22
Geneva bridge	4	60
Horses, wagons, harnesses, etc	69	76
lumber, hardware, etc	71	31
fanton avenue bridge	5	50
fill street bridge	27	37
lash lane bridge	1	95
ark street bridge	13	29
Point street bridge	613	72
Promenade street bridge	3	16
Randall street bridge	27	68
Red bridge	375	60
Rent of keeper's house — Washington bridge	36	00
Salaries — Point street bridge	1,054	25
Salaries — Red bridge	634	32
Balaries — Washington bridge	612	82
Smithfield avenue bridge	61	75
Bundries	189	59
Celephone lines	2	68
Fools	37	85
Veazie street bridge	2	30
Wanskuck bridge	19	11
Washington bridge	822	88
Washington row bridge	11	86
West River street bridge	2	20
Weybosset bridge	17	00
<del>-</del>	\$8,803	:4
Bills approved on account of bridges f the fiscal year ending September 30, 190		
inclusive, amounted to		\$27,942 O
Charged as follows:		
Adelaide avenue, bridge abutments — to build	\$5,998	84
	28	20
Atwells avenue bridge	558	41
Barn expenses		uT.
Barn expenses	195	91
Barn expenses		11
Barn expenses.  Branch avenue bridge.  Branch avenue culvert.  Building at city yard.	6	· · · ·
Barn expenses.  Branch avenue bridge.  Branch avenue culvert.	6 10	11
Barn expenses.  Branch avenue bridge.  Branch avenue culvert.  Building at city yard.	6 10 27	99

#### BRIDGES.

August 18th, the proposal of John R. White & Son, Incorporated, to furnish and deliver the egg anthracite coal required to June 1, 1904, at \$5.85 per ton of 2,000 pounds, was accepted.

August 18th, the proposal of the Eastern Coal Company to furnish and deliver as required to June 1, 1904, Georges Creek, New River or Pocahontas lump coal at \$5.00 per ton of 2,000 pounds, was accepted.

The following work was in progress at the end of the quarter, namely:

## TO BUILD BRIDGE AND APPROACHES.

No. of resolution. Date of approval.

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- 411. Dec. 19, " Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; River walls between Burnside and Exchange bridges.

Adelaide avenue, bridge abutments—to build	\$3,677	22
Barn expenses	201	95
Branch avenue bridge		90
Branch avenue culvert	6	11
Burnside bridge	. 5	24
Car fares	25	00
Cemetery street bridge	1	10
Amount carried forward	\$3,920	<u>52</u>

32	CITY DOCUMENT.		[No.	<b>2</b> U.
Merino br	proved for account of building the idge for the fiscal year ending 30, 1903, inclusive, amounted to	g	<b>\$</b> 54, <b>4</b> 35	72
river walls change bri	broved for account of building the between the Burnside and Endges, from July 1 to September clusive, have been paid from the	x- er		
special appamount of	propriation for that work, to the	·	<b>\$1,954</b>	61
river walls change bri	broved for account of building the between the Burnside and Exdges, for the fiscal year endin 30, 1903, inclusive, amounted t	k- g	<b>\$</b> 5,488	14
	PUBLIC LIGHTS.			
lights from	roved on account of the public July 1 to September 30, 1905 mounted to		<b>*</b> 69,939	52
Charged	as follows:			
		51,632		
	lights	11,770		
	ts	6,028		
	· · · · · · · · · · · · · · · · · · ·	294 100		
•	lights		28	
	moving gas posts		49	
	is harnesses etc		18	

Horses, wagons, harnesses, etc.....

Bills deposited with the city treasurer for collection from July 1 to September 30, 1903, inclusive, amounted to . . . .

50 49 6 18

85 00

\$69,939 52

Removing gas posts	83	00		
One common lantern	2	00		
	\$5	00		
During the quarter, coupons from be collected have been returned by the c				
treasurer and receipted for to the amount	of		<b>\$</b> 5	0
As follows:				
Removing gas posts	<b>\$</b> 3	00		
One common lantern	2	00		
	<b>\$</b> 5	00		
Bills approved on account of the publights for the fiscal year ending Septemb 30, 1903, inclusive, amounted to .	oer	\$288 <u>.</u>	,214	58
lights for the fiscal year ending Septemb	oer	\$288.	,214	58
lights for the fiscal year ending Septemb 30, 1903, inclusive, amounted to  Charged as follows:  Arc lights	er		,214	58
lights for the fiscal year ending Septemb 30, 1903, inclusive, amounted to  Charged as follows:  Arc lights	\$216,603 46,134	50 04	,214	58
lights for the fiscal year ending Septemb 30, 1903, inclusive, amounted to  Charged as follows:  Arc lights	\$216,603 46,134 23,823	50 04 07	,214	58
lights for the fiscal year ending Septemb 30, 1903, inclusive, amounted to  Charged as follows:  Arc lights	\$216,603 46,134	50 04 07 31	,214	58
lights for the fiscal year ending Septemb 30, 1903, inclusive, amounted to  Charged as follows:  Arc lights.  Incandescent lights.  Welsbach lights.  Salaries  Gas for street lights.  Barn expenses.	\$216,603 46,134 23,823 973	50 04 07 31 49	,214	58
lights for the fiscal year ending Septemb 30, 1903, inclusive, amounted to  Charged as follows:  Arc lights.  Incandescent lights.  Welsbach lights.  Gas for street lights.  Barn expenses.  Setting and removing gas posts.	\$216,603 46,134 23,823 973 245 208 208	50 04 07 31 49 70	,214	58
lights for the fiscal year ending Septemb 30, 1903, inclusive, amounted to  Charged as follows:  Arc lights.  Incandescent lights.  Welsbach lights.  Gas for street lights.  Barn expenses.  Setting and removing gas posts.  Horses, wagons, harnesses, etc.	\$216,603 46,134 23,823 973 245 208 208	50 04 07 31 49 70 08	,214	58
lights for the fiscal year ending Septemb 30, 1903, inclusive, amounted to  Charged as follows:  Arc lights.  Incandescent lights.  Welsbach lights.  Salaries  Gas for street lights.  Barn expenses.  Setting and removing gas posts.	\$216,603 46,134 23,823 973 245 208 208	50 04 07 31 49 70	,214	58

## PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from July 1 to September 30, 1903, inclusive, amounted to . . .

**\$**5,118 40

## Charged as follows:

Salaries of commissioner and secretary	\$1,760	16
Salaries of office assistants	3,202	13
Office supplies	153	43
Telephone lines	2	68
	85.118	40

Bills approved on account of the public works office for the fiscal year ending September 30, 1903, inclusive, amounted to . .

822,674 75

## Charged as follows:

Salaries of commissioner and secretary	\$7,580 16
Salaries of office assistants	12,487 26
Installation of card system	2,000 00
Office supplies	596 61
Telephone lines	10 72

\$22,674 75

## CONTINGENCIES.

890 50

WALTER F. SLADE,

Commissioner.

As follows:		·	
Removing gas posts	<b>8</b> 3 (		
One common lantern	2 (	_	
	\$5 (	00	
During the quarter, coupons from bills			
collected have been returned by the city			
treasurer and receipted for to the amount of		<b>\$</b> 5	00
		•	
As follows:			
Removing gas posts	<b>\$</b> 3 (	00	
One common lantern	2 (	<b>X</b> 0	
	<b>\$</b> 5 (	00	
Bills approved on account of the public	•		
lights for the fiscal year ending September			
30, 1903, inclusive, amounted to	8	288,214	<b>5</b> 8
Charged as follows:			
· ·			
Arc lights \$21 Incandescent lights 4	6,603 ( 6,134 (		
e e e e e e e e e e e e e e e e e e e	3,823		
Salaries	973		
Gas for street lights	245	19	
Barn expenses	208 7	-	
		16	
Setting and removing gas posts	208 (	-	

## PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from July 1 to September 30, 1903, inclusive, amounted to . . .

**\$**5,118 40

\$288,214 58

15

Charged as follows:		
Salaries of commissioner and secretary	<b>31,760</b>	16
Salaries of office assistants	3,202	13
Office supplies	153	43
Telephone lines	2	68
	<b>\$</b> 5,118	40
Bills approved on account of the public works office for the fiscal year ending Se		
tember 30, 1903, inclusive, amounted to	•	\$22,674
Charged as follows:		
Salaries of commissioner and secretary	<b>\$</b> 7,580	16
Salaries of office assistants	12,487	26
Installation of card system	2,000	00

#### CONTINGENCIES.

WALTER F. SLADE,

Commissioner.

596 61 10 72

\$22,674 75

## CERTAL EIGHTY-FOURTH QUARTERLY REPORT

# Department of Public Works

CITY OF PROVIDENCE, R. I.

QUARTER ENDING DECEMBER 31, 1903.



The Providence Press SNOW & FARNHAM, CITY PRINTERS, 63 Washington Str



## EIGHTY-FOURTH

## QUARTERLY REPORT

# Department of Public Works

CITY OF PROVIDENCE, R. I.

QUARTER ENDING DECEMBER 31, 1903.



The Providence Press SNOW & FARNHAM, CITY PRINTERS. THE NEW YORK PUBLIC LIBRARY P1 4783

## REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., January 1, 1904.

## TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-fourth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending December 31, 1903.

#### WATER WORKS.

December 11th, the proposal of the Phillips Lead and Supply Company to furnish 9,000 pounds of 5-inch lead pipe at \$4.90 per hundred pounds delivered in the city yard, was accepted.

December 11th, the proposal of The L. H. Tillinghast Supply Company to furnish and deliver in the city yard 9,000 pounds of §-inch lead pipe at \$4.90 per hundred pounds, was accepted.

December 11th, the proposal of The Congdon & Carpenter Company to furnish and deliver in the city yard 8,000 pounds of pig lead at \$4.42\frac{1}{2}\$ per hundred pounds; and one pig of tin at twenty-seven and 50-100 dollars (\$27.50) per hundred pounds, was accepted.

December 11th, the proposal of the Miller Iron Company to furnish and deliver in the city yard 8,000 pounds of pig lead at \$4.42½ per hundred pounds, was accepted.

December 11th, the proposal of John W. Lyon to furnish taps, stops and plugs of various sizes was accepted, and a contract subsequently executed. Amount, \$1,239.55.

December 14th, the proposal of the Coffin Valve Company to furnish fire hydrants and water gates was accepted, and a contract subsequently executed. Amount, \$4,590.50.

December 15th, the proposal of the Fuller Iron Works to furnish special castings for the water and sewer departments for the year 1904 was accepted, and a contract entered into.

The average daily consumption of water during the last quarter was 13,488,330 gallons, and the average daily consumption for the year 1903 was 13,114,614 gallons.

Water pipes were laid during the quarter as follows:

• •	8	•	
	12-INCH.		
In Merino avenue		· · · · · · · · · · · · · · · · · · ·	712.47 feet.
	8-inch.		
In Houghton street; and in l			677.07 feet.
	6-inch.		
In Caswell and Dayton cou Augusta, Bowlet, David, Herschel, Moorefield, Op and Weymouth streets: land avenues: in Henry, Edgewood, Germania, Po in the town of Cranston;	Dunford, Eamed per, O'Connell, S Alumni, Unive Noble and Narra ontiac and Wes	s, Edith, Elgin, Stansbury, Tell rsity and Way- gansett streets; twood avenues	
town of Johnston	. <b></b>		7,761.85 feet
Total			9,151.39 feet.
or 1.733 + miles.			
Water nines were re-	noved during	the quarter	as follows:

Statement of sizes and lengths of pipe laid since the commencement of the work:

10,084.00 feet.

36-inch .....

50-inch	61,328.30 feet
P4-inch	43,758.29 feet
20-inch	9,626.59 feet
16-inch	33,812.95 feet
12-inch	104,991.24 feet
10-inch	15,057.14 feet
8-inch	290,709.91 feet
6-inch	1,231,296.47 feet
Total	1,800,664.89 feet
or, 341.035 + miles.	
Statement of sizes and lengths of pipe laid f	-
Statement of sizes and lengths of pipe laid f water service for fire protection since the com	<del>-</del>
Statement of sizes and lengths of pipe laid f water service for fire protection since the com the work:	mencement of
Statement of sizes and lengths of pipe laid f water service for fire protection since the com the work:  24-inch	mencement of
Statement of sizes and lengths of pipe laid f water service for fire protection since the com	mencement of

Eleven fire hydrants have been set during the quarter, one in each of the following locations:

or, 5.569 + miles.

Augusta street, north side, 2 feet east of Wainwright street.

Bath street, east side, 6.7 feet south of West Park street.

Jewett street, north side, 330.5 feet west of Bath street.

Opper street, east side, 3.5 feet north of Branch avenue.

Pontiac avenue, Cranston, east side, 23.5 feet south of Park avenue.

Rosedale street, north side, 344 feet east of Ellery street.

Tucker avenue, Cranston, south side, 608 feet west of Broad street.

University avenue, north side, 209 feet west of Slater avenue.

University avenue, north side, 194 feet east of Elngrove avenue.

Weymouth street, east side, 22.5 feet north of Lloyd avenue.

Weymouth street, east side, 214 feet south of Alumni avenue.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now nineteen hundred and eighty-nine—eighteen hundred and eighty-six flush, and one hundred and three post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and forty-eight water meters were set, of which number sixty-four were to replace other meters. The use of sixteen meters was discontinued.

The following meters were in use at the close of the quarter:

KIND.	Size.						٠.			
	ţ-in.	}-in.	1-in.	1 <u>}</u> -in.	2-in.	3-in.	∔in.	6-in.	8-in.	Total
Ball & Fitts	2,157	440	103	11	5	·				2,710
Ball & Fitts, rotary			4	7	<sub>-</sub>	2	1			14
Crown	9,359	1,085	321	139	37	24	25	1		10,991
Empire	932	134	61	45	13	1	1			1,187
Fales, Jenks & Sons			1							1
Gem					13	28	16	3		•
Thomson	4,173	424	75	53	22	7	7	2		4,763
Trident	102		1							103
Venturi				'					1	1
Worthington	1			<u> </u>	1				• • • • • • • • • • • • • • • • • • • •	1
	16,724	2,083	566	255	91	62		6	1	19,83

One plumber's license was issued during the quarter, making the total number one hundred and thirty-two, all of which expire December 31, 1903.

Six hundred and eighty-six permits to do plumbing work were issued during the quarter.

One hundred and fifty applications for water were made during the quarter, making the total number December 31, 1903, twenty-six thousand eighty-four.

The number of new service stops opened during the quarter was one hundred and forty-nine.

The total number of service stops opened to December 31, 1903, inclusive, was twenty-five thousand four hundred and twenty-two. The number in actual use December 31, 1903, was twenty-three thousand three hundred and thirty-two.

The following is a list of drinking troughs supplied with water by the Providence water works, viz.:

Academy avenue, north of Chalkstone. Angell street, junction of South Angell. Atwells avenue, junction of Harris. Bassett street, off Hospital. Branch avenue and Abbott street. Broad street, junction of Eddy. Broadway, junction of Westminster street. Canal street, near Linard. Charles street, corner of Ormsbee avenue. Charles street and Branch avenue. Chalkstone avenue, junction of Manton. Dexter street, near Durfee. Dorrance street, near Exchange place. Douglas avenue and Chalkstone. Douglas avenue and Admiral street. Dyer street, near Crawford street bridge. Dyer street, junction of Eddy. Elmwood avenue and Public street. Federal street, junction of Kenyon. Fountain street, junction of Carpenter. Hartford avenue, junction of Killingly street. Manton avenue, junction of Atwells. Miller avenue (Roger Williams park). North Main street, junction of Benefit. Olneyville square. Plainfield street, junction of Pocasset avenue. Prairie avenue, junction of Broad street. Point street, junction of Friendship. Point street, near the bridge. Potters avenue, corner of Cranston street. Randall square. Reservoir avenue, junction of Pontiac street. Rochambeau avenue, east of Blackstone boulevard. Smith street, junction of Chalkstone avenue. South Main street, junction of Wickenden. Thayer street, junction of Hope. Trinity square. Waterman street, corner of East River. Westminster street, junction of Cranston. Weybosset street, near Mathewson.

Wickenden street, corner of Governor.

### TOWN OF CRANSTON.

Cranston street, junction of Phenix road.

Park avenue, corner of Doric.

Town of Johnston.

Manton avenue, near Killey.

The following is a list of street sprinklers ready for use on the Providence water works, viz.:

Aborn street, near junction of Atwells avenue.

America street, near Atwells avenue.

Barton street, corner of Broadway.

Bradford street, near Broadway.

Branch avenue, near junction of North Main street.

Benefit street, foot of Angell.

Benefit street, between North Main and Halsey.

Beacon avenue, near Friendship street.

Broad street, near Gallup.

Broadway, north side, west of Harris avenue.

Camp street, between Cypress and Larch. Codding street, near Westminster.

Cranston street, east side of railroad bridge.

Crary street, between Eddy and Hospital.

Cromwell street, near Dexter.

Daniel avenue, near Plainfield street.

Dexter street, opposite Division.

Doyle avenue, near Hope street. Doyle avenue, near North Main street.

Exchange place, west end.

Ford street, west of Cranston.

Garnet street, near Pine.

Governor street, near Waterman.

Greenwich street, corner Elmwood avenue.

Harris avenue, near Atwells.

Hope street, junction of Thayer. Hope street, corner of Wickenden.

John street, corner of Benefit.

Knight street, corner of Grove.

Laurel Hill avenue, near Plainfield street.

Linden street, near Broad.

Manning street, near Brook.

Medway street, east of Wayland avenue.

Melrose street, near south corner of burying ground.

Moore street, corner of Broad. North Main street, corner of Thomas.

North Main street, near Mill. Olive street, east of Prospect.

Olney street, near Camp.

Orms street, near Ormsbee avenue.

Oxford street, corner of Eddy. Pocasset avenue, near Plainfield street. Power street, west of Hope. Promenade street, west of Gaspee. Promenade street, west of Holden. Promenade street, west of Steeple. Prospect street, corner of Bowen. Public street, about 200 feet east of Temple. Reservoir avenue, opposite Atlantic. Roger Williams park, near Broad street (private). Salem street, between Potters avenue and Benedict street. Smith street, near Oakland avenue. Smith street, near Schaffer. Smithfield avenue, north of Branch. Smithfield avenue, north of the Moshassuck river. Transit street, between South Water and South Main.

Traverse street, corner of Pike.

Washington street, corner of Dean.

Webster avenue, north of Progress. West Friendship street, near Broad.

Weybosset street, opposite Abbott Park place.

Willard avenue, west of Prairie.

Willow street, west of Messer.

Winter street, near Pond.

Woodland street, near Holden.

### The following is a list of drinking fountains, namely:

Atwells avenue, corner of Academy. Branch avenue, at Charles street.

Benefit street, corner of College.

Canal street, corner of Steeple.

Eandáce street, corner of Orms.

Cranston street, junction of Westminster.

Davis park.

Dexter street, opposite Division.

Dorrance street, near Exchange place. Dver street, corner of Crawford.

Friendship street, at Hayward park.

Jackson street, corner of Westminster.

North Main street, near Mill.

Olnevville square.

Prairie avenue, opposite Comstock.

Point street, corner of Eddy.

Potters avenue, corner of Elmwood. Randall square.

Roger Williams park, near Betsey Williams cottage.

Roger Williams park, near Elmwood avenue. Roger Williams park, near the menagerie.

Ship street, corner of Dyer.

Tockwotton park.

Westminster street, corner of Dyer. Wickenden street, corner of Transit.

### SPRINKLER HYDRANTS FOR CAR SPRINKLERS.

Angell street, south side, 90 feet east of Wayland avenue, in sidewalk. Camp street, east side, 125 feet north of Olney, in sidewalk. Chalkstone avenue, northeast corner of Fallon, in sidewalk. Dexter street, west side. 18 feet south of Cranston, in sidewalk. Eddy street, west side, at Richmond, in street. Eddy street, west side, 5 feet south of north line of Washington avenue.

Edna street, west side, 16 feet north of south line of car-house.

Elmwood avenue, east side, 85 feet south of Thackeray street.

Hope street, east side, 125 feet north of Barnes, in street.

Manton avenue, west side, 150 feet south of fire station, in sidewalk.

Market square, north side, 24 feet east of Canal street, in street.

North Main street, west side, 182 feet north of White, in street.

North Main street, west side, 17 feet north of Livingstone, in street.

Orms street, south side, 23 feet east of Windsor, in sidewalk.

Randall square, east side, 32 feet north of Randall street, in street.

Richmond street, southwest side, 44 feet southeast of Pine, in sidewalksmith street, southwest side, 360 feet southeast of Hilltop avenue sidewalk.

Thurbers avenue, south side, 298 feet east of Broad street, in sidewalk — Wickenden street, south side, 167 feet west of Brook, in street. Winter street, east side, 187 feet south of Pond, in sidewalk.

11

293 17,966 18,475 The following table shows the lengths, sizes, etc., of services laid during twenty-seven years, ending December 288 17,425 17,924 Service Boxes Used To. H. STOPS USED. 306 303 mi. 1,371 1,414 an H 426 346 17,472 645 15,308 339 16,937 645 14,818 -1 P stee 535 Toı, To Dec. 31, 1302 .... 9,919 9 231 485 08 21,824,99 4,897 4 3,587.2 457.7 271,773.17 285,865.79 34,911.28 612 13,910 1,656 420 TAPS USED. er . j 1,704 os H 3,638.2 457.7 280,355.97 294,883,79 35,955.28 612 14,384 世中 ÷E. 200 Trench- Paving. 1,044 31, 1903: 9,018 Totals. 8,582.8 LENGTH OF SERVICES IN FEET. 31 Totals,.. 9,919.9 239,334.88 22,448.29 4,957. Sizes of Pipe. 623.3 7,818,9 inch. YEARS.

			LE	NGTH	OF SE	LENGTH OF SERVICES IN FEET.	N FEET.		NC	MBE	B A3	NUMBER AND SIZE	82	N	MBER	ANI	NUMBER AND SIZE	893
MONTHS.	1	Stre	SIZE OF PIPE.	PE.			Total	Total		T 40	VAP8	JSED		6	STO	S.	SED.	sed.
	inch.	inch. inch.	inch.	14 inch.	14 inch.	Totals.	Lengthof Trench- ing.	Length of Pav- ing.			#B	ii.	Total.	÷.	e g	in.	Total.	Servic
January	1:22.8		100	1		120.8	131.	8	2	1:	ì	1 5	10	101			10	10
February	62.6		31 2	****	*****	93.8	.99	26.5	10	:	-	1	9	10	1	1	9	9
March	805.6	8.9		00	*****	820	863.	108.5	4.7	01	1	-	99	8	-	:	92	12
April	721.8	77.6	25.11	44.0		799.4	839.	N.	40	0	-	:	99	42	06	100	92	51
Мву	872.4	9.10	-	1		939	.888	92.	25	03	-	-	89	88	80	1	19	83
June	711.5	61.2	1	23.2	*****	6.367	832.5	71.5	30	9	1	<b>C1</b>	82	5	9		00	51
July	824.1	25.00	-	:		909.3	954.5	82.	8	9	:	1	25	65	9	1	99	20
August	673.8	88.6	24	****		770.6	812.	88	7	10	04	-	49	#	10	1	92	52
September	921.2	98.5	20.2	19.6		1,059.5	1,111.5	127.	13	9	-	ci	3	123	9	-	2 64	3
October	932.3	85.2	*	****	:	1,017.5	1,071.5	184.	5	9	1		19	62	9	-	88	88
November	2.061	32.		***	*****	8.22.2	.198	.16	45	00	:	0.0	48	1.4	-	1	48	99
December	410.6	20.2				430.8	455.	62.5	53	01	:	4	8	88			29	30
Totals	1 848.9	623.3	20.02	M		8.582.8	9.018	1.044	474	84	0	1 1	200	969	1 2	00	1 1	***

Changes in size and location of services, 1903:

size .da:	notation	Change and l	883.5 41 9 10 5				
tion noit		Срапк	0				
· Ajuo	əzis ni s	Cpunk	#				
	*	Paving	883.5				
	·2ui	Ттепсћ	2,068				
1		14 inch.					
		inch.	6.06				
ei l	INSERTED.	inch.	106.3				
D PIP	INS	inch.	152.4				
Sizes and Lengths of Lead Pipe.		inch.	582.1 761.8 161.6 54.6 67.2 73.6 586.1 152.4 106.3 90.9 2,068				
THS O		It lineb.	13.6				
LENG		14 Inch.	67.2				
GAA 8	OUT.	inch,	97.6				
Sizk	TAKEN OUT.	inch.	9.191				
	F	inch.	8.192				
		inch.	582.1				
		1 inch.	10				
	INSKRIED.		KRIED.	RRTED.		inch, inch, inch.	œ
					inch.	11	
œ.			inch.	38			
TAPS AND STOPS.		inch.					
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TA	var.	inch.	62				
	TARES OUT.	inch.	6				
	TAB	inch.	3				
		inch.	25				

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1800	50	8	20	00	86	92	28	3	E	2	3	3	E
1895	8	×	\$7	2.0	0	001	98	83	20	96	8	E.	夏
1892 1803 1804 1805 1800	1 8	80	07	7.6	Z	901	98	116	112	80	20	62	1884
1803	1 5		36	r	16	901	353	911	N	96	9	2	
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	9	98	3	22	11	12	80	90	93	101	18	25	98
1880 1890 1891	1.8	19	ñ	23	1 99	2	19	2	E	2	72	5	3
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1883	1 2	-	-	20	10	3	100	8	100	-		3	· =
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PSO 1S41 1S62	1 8	2	2	35	7		47	160	12	×		 5	¥ c
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	! 4		3	×	g		200	17	22	80	55	45	
<u>:</u>				-		103	 2		· ·	Z	12	8	12
5. 19.				æ :	168/136	118,111	X	<del></del> .	× .	×	7	8	89
EM 8181 1181 9181 1181 1	·· ;		1-	2	1 22	25	1 111	ž	Ē	3	ž	8	1068 865
	· · · <u> </u>	. 7	- 2						-				-
73 PK	· :		30 ES	2 ·	211 202 123	101 945 614	1.1	<u>.</u>	<u> </u>	_ <u>=</u> _g	= =	참 :	' <u>\$</u>
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<u> </u>		. <del>-</del>		<b>=</b>			H.	• • •	<u>-</u> .		∵-		! _ <del>_</del> _
Z		: :	:	:	. <u>:</u>	:		. :	:	÷	:	Œ.	. 3
MONTHM, 1851 1852 1853 1852		February	March	April 109, 109, 108	May	June	July 121 261 127	August 221 209 12	September 184 117 13	October 128 135 16	November 100 104 18	December, 56	Totale 56 1142 1240 1341

The receipts for water each year since the commencement have been as follows:

Year.	Amount.	Year.	Amount.
1872	\$41,003 51	1888	8346,731 58
1873	97,386 09	1889	377,497 97
1874	132,052 39	1890	401,140 86
1875	165,144 71	1891	404,553 84
1876	183,868 73	1892	409,421 21
1877	200,039 39	1893	427,546 51
1878	218,883 33	1894	432,383 97
1879	229,551 78	1895	471,069 97
1880	247,705 06	1896	485,187 33
1881	260,530 87	1897	490,652 47
1882	269,318 77	1898	502,603 10
1883	283,632 89	1899	522,124 46
1884	302,368 36	1900	554,949 6:
1885	313,561 21	1901	578,869 07
1886	323,084 67	1902	605,307 3
1887	339,513 60	1903	621,016 74

The amount of bills approved on account of water works from October 1, to December 31, 1903, inclusive, was:

Classified as follows:

### PRTTACONSET PUMPING STATION.

Coal and wood	\$7,691	82
Engineers	685	4.5
Sundries		10
Fireman	589	20
Superintendence		07
Barn expenses		92
Real estate at Pettaconset		00
Amount carried forward	\$10,459	.765

16	CITY DOCUMENT.		[No. 4
	at forward	\$10,459 56	
Oil, waste and packin	ıg	138 18	
	ty engine	110 81	
		96 55	
Repairs on boilers		80 63	
		80 50	
		17 20	
- •	ne and house	10 00	
Lights	······	9 94	\$11,003 3
	SOCKANOSSET RESERVOIR.		
Watahman		\$188 00	
		32 10	
Junui 108	•		230 1
	HOPE PUMPING STATION.		
Coal and wood		\$671 35	
		524 67	
		308.86	
• •		256 54	
-	***************************************	120 63	
		96 54	
Oil, waste and packing	ng	22 29	2,000 8
	Hope Reservoir.		.,
Watchman		<b>\$</b> 211 50	
		76 31	
, <b></b>	-	— <del>-</del>	287 8
	FRUIT HILL RESERVOIR.		
		<b>\$830 83</b>	
Watchman	•••••	211 50	
	-		1,042 3
	METER DEPARTMENT.		
	• • • • • • • • • • • • • • • • • • • •	<b>\$4,666</b> 13	
setting and repairing	; meters	1,391 04	6,057 1
	Pipe Line and Service Stor	<b>P</b> 8.	
Renairs		\$4,610 07	
-	slaries	876 47	
aperincendence— se	-		5,486 5
Amount carried	forward		\$26,098 2

Stop valves.  Laying service pipe.  Service pipe.  Special castings.  Pig lead and tin.  Cast iron water pipe.  Labor on and carting pipe.  Tools.  Taps and stops.  Pipe yard, office expenses.  Fire hydrants, boxes and covers.  Repairs on pipe yard buildings.  Miscellaneous.  Town of Cranston, tax.  \$7	2,683 4 1,417 8 1,283 6 897 5 459 6 360 3 2132 8 82 3 47 6 1 1 1 4,595 3 559 9 400 0 144 2 138 1 75 0 75 7	50 59 50 90 96 96 96 97 98 99 99 99 98 99 99 90 90 90 90 90 90 90 90	7,762	46
As a service pipe.  Bervice pipe.  B	1,417 & 1,283 & 897 & 459 & 360 & 360 & 3213 & 213 & 25 & 360 & 36	50 59 50 90 96 96 96 97 98 99 99 99 98 99 99 90 90 90 90 90 90 90 90	7,762	46
Laying service pipe.  Gervice pipe  Special castings.  Pig lead and tin.  Cast iron water pipe.  Labor on and carting pipe  Fools  Faps and stops.  Pipe yard, office expenses.  Fire hydrants, boxes and covers.  Repairs on pipe yard buildings.  MISCELLANEOUS.  Fown of Cranston, tax	,283 6 897 5 459 9 360 3 213 2 132 5 99 6 83 2 47 6 1 1	59 50 90 36 23 35 37 13	7,762	46
Bervice pipe Becial castings Big lead and tin Cast iron water pipe Car fares	897 5 459 9 360 3 213 2 5 99 6 83 2 82 3 47 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 90 36 23 53 53 53 53 53 53 53 53 53 5	7,762	46
Pig lead and tin.  Cast iron water pipe  Labor on and carting pipe.  Frools  Fipe yard, office expenses  Fire hydrants, boxes and covers  Repairs on pipe yard buildings.  Miscellaneous.  Fown of Cranston, tax  Sarn expenses  Frevention of defilement of the Pawtuxet.  Fown of North Providence, tax  Horses, wagons, harnesses, etc.  Celephone lines  Car fares  Real estate at Pawtuxet.  Fransferring water service records to card system.  Public drinking fountains and troughs.	459 9 360 3 213 2 5 99 6 83 2 82 3 47 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90 36 23 53 53 53 53 53 53 53 53 53 5	7,762	46
Pig lead and tin. Cast iron water pipe. Labor on and carting pipe. Fools Fools Fiaps and stops Pipe yard, office expenses Fire hydrants, boxes and covers. Repairs on pipe yard buildings.  MISCELLANEOUS.  Fown of Cranston, tax  Clerks' and inspectors' salaries Barn expenses Prevention of defilement of the Pawtuxet. Fown of North Providence, tax Horses, wagons, harnesses, etc. Felephone lines Car fares Real estate at Pawtuxet. Transferring water service records to card system. Public drinking fountains and troughs.	360 3 213 2 132 5 99 6 83 2 82 3 47 6 1,595 3 559 9 400 0 144 2 138 1 75 0	36 23 53 58 22 22 23 55 7 13 59 99 99 99 99 18	7,762	46
Cast iron water pipe. Labor on and carting pipe. Fools Faps and stops Pipe yard, office expenses. Fire hydrants, boxes and covers. Repairs on pipe yard buildings.  Miscellaneous.  Fown of Cranston, tax.  Clerks' and inspectors' salaries.  Barn expenses. Prevention of defilement of the Pawtuxet. Fown of North Providence, tax. Horses, wagons, harnesses, etc. Felephone lines. Car fares.  Real estate at Pawtuxet.  Transferring water service records to card system. Public drinking fountains and troughs.	213 2 5 99 6 83 2 82 3 47 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 553 568 22 55 57 13 	7,762	46
Labor on and carting pipe.  Fools  Faps and stops  Pipe yard, office expenses  Fire hydrants, boxes and covers  Repairs on pipe yard buildings.  MISCELLANEOUS.  Fown of Cranston, tax  Clerks' and inspectors' salaries  Barn expenses  Prevention of defilement of the Pawtuxet.  Fown of North Providence, tax  Horses, wagons, harnesses, etc.  Felephone lines  Car fares  Real estate at Pawtuxet.  Fransferring water service records to card system.  Public drinking fountains and troughs.	132 8 99 6 83 2 82 3 47 6 1 1 7,077 6 1,595 3 559 9 400 0 144 2 138 1 75 0	53 58 22 35 57 13 	7,762	46
Fools  Faps and stops  Pipe yard, office expenses  Fire hydrants, boxes and covers  Repairs on pipe yard buildings  Miscrllangous  Fown of Cranston, tax  Clerks' and inspectors' salaries  Barn expenses  Prevention of defilement of the Pawtuxet  Fown of North Providence, tax  Horses, wagons, harnesses, etc.  Felephone lines  Car fares  Real estate at Pawtuxet  Fransferring water service records to card system  Public drinking fountains and troughs.	99 6 83 2 82 3 47 6 1 1 1 7,077 6 1,595 3 559 9 400 0 144 2 138 1 75 0	58 522 535 537 13 59 59 50 50	7,762	46
Faps and stops	83 2 82 3 47 6 1 1 7,077 6 1,595 3 559 9 400 0 144 2 138 1 75 0	22 35 57 13 	7,762	46
Pipe yard, office expenses. Fire hydrants, boxes and covers	82 3 47 6 1 1 7,077 6 1,595 3 559 9 400 0 144 2 138 1 75 0	35 37 13 	7,762	46
Fire hydrants, boxes and covers	1 1 1,077 6 1,595 3 559 9 549 9 400 0 144 2 138 1 75 0	13 	7,762	46
Miscellaneous.  Fown of Cranston, tax	7,077 6 1,595 3 559 9 549 9 400 0 144 2 138 1 75 0	59 31 36 39 99 90 99 18	7,762	46
Miscrllangous.  Fown of Cranston, tax	5595 3 559 9 549 9 400 0 144 2 138 1 75 0	31 36 39 00 29 18	7,762	46
Fown of Cranston, tax	5595 3 559 9 549 9 400 0 144 2 138 1 75 0	31 36 39 00 29 18		
Clerks' and inspectors' salaries	5595 3 559 9 549 9 400 0 144 2 138 1 75 0	31 36 39 00 29 18		
Clerks' and inspectors' salaries	5595 3 559 9 549 9 400 0 144 2 138 1 75 0	31 36 39 00 29 18		
Barn expenses.  Prevention of defilement of the Pawtuxet  Fown of North Providence, tax  Horses, wagons, harnesses, etc  Felephone lines	559 9 549 9 400 0 144 2 138 1 75 0	16 99 00 29 18		
Prevention of defilement of the Pawtuxet	549 9 400 0 144 2 138 1 75 0	99 00 29 18 00		
Town of North Providence, tax	400 0 144 2 138 1 75 0	00 29 18		
Horses, wagons, harnesses, etc	138 1 75 0	18 00		
Car fares	<b>75</b> 0	)0		
Real estate at Pawtuxet				
Transferring water service records to card system. Public drinking fountains and troughs	67.5	• •		
Public drinking fountains and troughs		<b>3</b> 0		
	41 0	)5		
For construction,		<b>50</b>	10,649	57
For construction,		· <del></del>		—
For construction,		<b>\$</b> 4	44,510	23
		<b>\$36</b> ,9	987 3	35
Charged as follows:				
Installation of sand filtration plant at Pettaconset, \$36	5.987 3	35.		
-				
The total expenditures to December 31,				
1903, inclusive, was	₩9,	,597,0	075 1	18
The net expenditure for maintenance from Octobe	r 1 t	<b>20</b>		
December 31, 1903, inclusive, was	• • • • •	. \$	36,302	60
The net expenditure for maintenance to December 3: inclusive, was		. \$1,9	94,759	30
The net expenditure for construction from October 1 cember 31, 1903, inclusive, was			36,987	35

The value of the water works system, January 1, 1903, as estimated by the city engineer, was as follows:

Pettaconset pumping station	\$340,694	00
Hope pumping station	129,405	79
Sockanosset, Hope and Fruit Hill reservoirs	714,047	55
Main lines and distribution pipes	2,726,775	16
Real estate in Pawtuxet and Lincoln	15,975	00
Tools and supplies	29,875	18
••• -		- \$3,956,772 68
Bills deposited with the city treasu for collection from October 1 to December 1903, inclusive, amounted to		<b>\$</b> 77,878 37
As follows:		
Water	\$70,847	10
Water meters	3,480	25
Setting and repairing meters	1,797	87

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

Water...... \$69,069 76

Labor and material, laying services, etc., ......

Rent of real estate .....

Penalties....

Use of lead furnace.....

ills ity

\$77,878 37

**\$**77,327 39

1,522 36

101 75

30 00 39 04

35 00

5 00

### As follows:

water meters	. 3,477	00		
Labor and material, laying services, etc	2,424	19		
Setting and repairing meters	2,094	60	•	
Rent of real estate	93	00		
Repairs on pipe line	70	84		
Penalties	50	00		
Permanently closing service stops	40	00		
Use of lead furnace	5	00		
Repairs on buggy	3	00		
		_	\$77,327	<b>10</b>

### SEWERS.

One drain layer's license was issued during the quarter, making the total number one hundred and forty-six, all of which expire December 31, 1903.

During the quarter ending December 31, 1903, two hundred and seventy-two permits were issued to drain layers—one hundred and fifty-six for new work and one hundred and sixteen for extension and repairs of drains.

October 20th, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials.]

### TO FREDERICK E. SHAW.

No. of re	solution.	Date of app	roval.		
322.	Sept.	18, 1903,	Dudley street and the city yard,	<b>\$12,060</b>	60
319.	66 6		Elton street, from a point one hundred feet east of Taber avenue to		
		To Ci	Elmgrove	420	80
318.	Sept.	18, 1903,	Hilton street and California avenue,	<b>\$1,</b> 645	80

### To Frank A Gammino.

No. of resolution. Date of approval.

320. Sept. 18, 1903, Vandewater street, from Douglas avenue to

Branch . . . . \$4,393 10

November 10th, the proposals of the Charles S. Bush Company and Starkweather & Williams Company to furnish prime green copperas during the year 1904 at forty-four cents per hundred pounds, f. o. b. Harbor Junction wharf, were each accepted for one-half the quantity required.

December 17th, the proposal of Edwin D. Allen to furnish sewer pipe and flagstones was accepted and a contract subsequently executed. Amount, \$12,589.22.

December 17th, the proposal of the Smithfield Granite Company to furnish and deliver seventy-five catch-basin inlet stones at \$5.25 each, was accepted.

December 28th, the proposal of Charles M. Kelly to furnish and deliver along the line of the work the Portland cement required during 1904, was accepted and a contract subsequently executed.

December 28th, the proposal of the II. R. Horton Company to furnish and deliver along the line of the work the natural cement required during 1904, was accepted and a contract subsequently executed.

### SEWERS CONSTRUCTED TO DECEMBER 31, 1903, IN MILES.

ITEMS.	KIND.	Built previous to 1903.	Built during 1903.	Total to Dec. 31, 1903
Under regular appropria-	Brick.	37.151	1.161	38.312
Under regular appropria- tion	Pipe.	126,465	3.124	129.589
appropriation	Brick and Pipe.	26.824	1.552	28.376
Total miles of sewers		190,440	5,837	196.277

During the year, 98 catch-basins, 93 extra inlets, and 235 manholes have been built, making a total in use December 31, 1903, of 4,596 catch-basins, 1,503 extra inlets, and 8,401 manholes.

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution. Date of approval.

Date of completion.

350. Nov. 6, 1902, Branch avenue, from

Douglas to Veazie street, Oct. 31, 1903.

- 127. April 7, 1903, Atwells avenue, Pine and Broad streets, . . Nov. 18, 1903.
- 128. " " Merino avenue from
- Manton to near the Merino bridge, . . Dec. 18, 1903.
- 129. " " Weymouth street and Lloyd avenue, . . . Oct. 17, 1903.
- 130. " " Wayland, Cole and University avenues, . . . Oct. 17, 1903.

No. of	resolution	. Da	ate of app	proval. Date of comp
228.	June	5,	1903,	North Main street, east side, from Stenton avenue to Third street, Nov. 14,
318.	Sept.	18,	•	Hilton street and California avenue, Dec. 4,
321.	44	46	4	Barnes street, from a low

point west of Thayer to

sewer -

with

Thayer

- storm

work upon the following sewers was in progress a close of the quarter, namely:

connect

street

No. of resolution. Date of approval.

- 136. April 7, 1903, Section 30, Seekonk Division, Imp Sewerage System.
- 322. Sept. 18, 1903, Dudley street, from Pearl and to the head of the city dock.

Work upon the following sewers, completing the ordered by the city council, had not commenced Dec 31, 1903, namely:

No. of resolution. Date of approval.

- 229. June 5, 1903, Reservoir avenue, west side, from cent street to Algonquin.
- 230. " " West Park and Bath streets.
- 319. Sept. 18, 1903, Elton street, from a low point 10 east of Taber avenue to Elmgrove
- 320. " " " Vandewater street, from Douglas a to Branch.

				OLD	Огр Work.								NEW W	WORK.				
	<u> </u>	OLD DRAINS.	AINB.	C B	SAND-	OPEN	EN DIT	<b>Дитенка</b> .	oc.	SUMPS.		· 🕏	SEWEBA.	i	7	CATCH-BASINS	ASINS.	er ti oid
Montile.	Number.	Length in feet.	Deposit removed, cu. yards.	Number.	Deposit removed, cu. yards.	Number.	Length in feet.	Deposit removed, cu. yards.	Number.	Deposit romoved, cu. yards.	Number.	Length in feet.	Deposit removed, cu. yards.	Dead Ends,	No. times examined,	Number cleaned.	Deposit removed, cu. yards,	Total depos nioved, cu
January	<u>                                     </u>			:		<u> </u>			용	226.34	-	800	36.23	-	-	221	140.45	403.02
February	_:		:	<u>:</u>		 :		<del>-</del>	63	16.68	Ç1	7,850	68.27	T	H	261	330.68	415.63
March	_	475	10.16	:		31	135	30.37	#	172.00	£1	14,700	35.26	1	-	111	1,273.18	1,510 97
	_ :	i		i	:	-	1,100	40.74	<b>∞</b>	97.59	10	4,700	56.45		,	1,091	1,780.45	1,975.23
Мау	_:	:	:			_	1,300	66.67	90	128.81	12	2,800	26.07		1	1,695	2,144.89	2,366.44
	:_	:	:	_:		9	1,800	62.79	z	254.00	63	006	6.90		91	1,288	1,552.82	1,866.51
		i		<b>6</b>	8.00	:	:	:	29	125.92	က	800	13.64	96	,	1,497	1,996.81	2,144.37
-	-	175	2.37	o.	18.15	:	- :-	:	9	332.78	-		18.15	*****	1	1,589	1,776.11	2,147.56
September	01	928	13.00			:	: : :	:	1-	123.69	\$	7,462	37.61	*****	1	1,805	1,717.96	1,892.26
)ctober	_ :	:		:	:	-	4.5	12.04	9	72.46	5	21,000	30.26	99	1	1,774	1,735.20	1,849.96
November	9	1,275	43.78	-:	- :	_ :		:	1-	33.75	7	8,400	22.45	41	-	1,547	1,234.02	1,394.00
December	-	150	6.14	i	- ·	ຕ	200	3.4	15	154.26	돲	18,600	32.00	1	01	1,247	1,035.26	1,258.70
Totals	=	104.0	75 45	2	11 80	1 =	8	- S	1 :	208 98	1 5	88 010	383 80	181		11 690	00 444 00	0000

1...

In addition to the accompanying form, the following work has been performed by the sewer maintenance department for the year 1903:

#### WORK ON SEWERS.

Examined all sewers for condition and deposit, and all gates, slots, and sumps for same forty-eight times; also fifteen cellars on account of water in them. Repaired eleven holes over sewers, one house connection, fire box at brick station, two tide gates, two gates at precipitation tanks, and repaired and painted three gate houses. Replaced thirty-eight manhole frames and 159 covers, five track grates and one frame. Built one storm sewer 257.52 feet long, eight manholes, and one by-pass to old drain on Canal street. Reset 251 manhole frames. Cut in one five-inch, two eight-inch, ten six-inch and one twelve-inch connection. Put in one six-inch drain: removed roots from 101 sewers; brought two manholes to grade; flushed out pipe in lime-house at precipitation tanks twice, and one six-inch pipe at Doyle avenue and Camp street four times; puddled one ditch and abandoned two chutes.

### WORK ON BASINS.

Flushed 2,799 traps and 1,896 chutes to basins. Built five basins and six chutes. Thawed out ten chutes. Cleaned snow from 2,703 inlets. Repaired twenty-four holes at basins, forty-nine basins, twenty chutes, and six basin connections. Replaced eighteen basin covers; abandoned one basin; reset fifty-two traps; put in three extra inlet frames and covers and eighteen extra traps.

### OLD WORK.

Repaired sixteen old drains and five chutes. Levelled ten dumps and built five chutes.

### MISCELLANROUS WORK.

Flushed seventy-seven private connections, charged \$183.75; ten sewers and pumped out one, \$168.17; thawed out one pipe for health department, \$2.75; pumped out six cellars, \$25.43, and one fountain for J. W. Furlong, \$8.00; altered twenty-five manholes, built four chutes and two basins for Rhode Island Company, \$346.20; built two basins for sunchicles, \$36.03; filled three cisterns, \$6.00; cut in one eight-inch and two six-inch connections, \$60.65; puddled two ditches, \$58.75; repaired one basin, \$6.25; rebuilt one manhole, \$23.60; altered one drain and built two manholes, \$33.75, and filled one gas holder, \$15.75, for Providence Gas Company; built two basins, five chutes, two track grates for New York, New Haven and Hartford Railroad Company, \$132.05; drove test wells for Penniman & Maguire, \$33.50; repaired connection on Manton avenue, \$12.66; flooded skating rink for J. E. Sullivan, \$11.50.

For Park Department, Blackstone park: Built four basins, laid 101 feet of twelve-inch and ninety-five feet of fifteen-inch pipe, \$104.03.

For Merino Bridge: Built four basins, two chutes, one manhole, one twelve-inch storm sewer, 39.50 feet, set four grade posts, and built 11.06 feet of twenty-six inch brick sewer and 8.06 feet of eight-inch pipe sewer.

Carted coal for contingencies.

For Water Maintenance Department: Pounded and seeded banks at Hope and Sockanosset reservoirs; repaired one drinking fountain, one old drain at Sockanosset reservoir, and floor in boiler room at Hope station; carted fertilizer to Fruit Hill and Sockanosset reservoirs; removed ashes from Hope station eight times, and built two manholes for sprinklers.

For Sewer Construction Department—(regular): Built eight basins, twenty chutes, thirteen house connections, 18.67 feet of fifteen-inch, 181.92 feet of twelve-inch, and 75.90 feet of eight-inch pipe sewer; (storm sewers): built ten basins, seventeen chutes, 298.17 feet of fifteen-inch, and 809.83 feet of twelve-inch pipe, sewer, nine manholes and one house connection.

For Improved Sewerage Department: Built five basins, thirteen chutes, 18.17 feet of six-inch drain to curb, and thirty feet of twenty-inch brick sewer.

Altered ten manholes, for highway department; examined sewer in Branch avenue for sewer construction department; built six basins, twelve chutes, 195 feet of fifteen-inch, and 199 feet of twelve-inch pipe sewer, (old work); built four manholes on intake to brick station, (repairs).

The amount of bills approved on account of sewers from October 1 to December 31, 1903, inclusive, was as follows:

### FOR CONSTRUCTION.

Regular appropriation...... \$42,736 80

Improved sewerage appropriation	26,467	52	\$69,204 32
Charged as follows:			
Contract reservations	\$10,307	00	
Material	8,858	98	
8undries	1,016	48	
Additional catch-basins	619	53	
Testing cement	268	80	
Tools	16	<b>52</b>	
Sewer in Atwells avenue, Pine and Broad streets	4,789	45	
Sewer in Barnes street, from the low point in said			
street west of Thayer street to Thayer	55	08	
Sewer in Branch avenue, from Douglas to Veazie			
street	3,243	13	
Sewer in Branch avenue, from Langdon street to			
near the Moshassuck river	3,559	14	
Sewer in Charles street, from near Amboy to			
Branch avenue	12	00	

Amount carried forward...... \$32,746 06

4

Amount brought forward	\$32,746	06	
Sewer in Dudley street, from junction of Pearl and			
Plain to Eddy street, and across land of the			
city from Eddy street to the head of the city			
dock	3,711	44	
Sewer in Hilton street, from Bogman to Willard			
avenue, and in California avenue, from Virginia			
to Eddy street	1,997	16	
Sewer in Merino avenue, from Manton avenue			
to near Merino bridge	5,359	62	
Sewer in North Main street, east side, from Sten-			
ton avenue to Third street	3,616		
Sewer in Silver Spring street and Northup avenue.		10	
Sewer in Wayland, Cole, and University avenues.	3,714		
Sewer in Weymouth street and Lloyd avenue	2,979	31	
Sewer in Branch avenue, from Veazie street to the river near Vandewater street		50	
Sewer in Moshassuck Division, Section 27	2,523		
Sewer in Moshassuck Division, Section 28	1,060		
Sewer in Seekonk Division, Section 29		25	
Sewer in Seekonk Division, Section 30	11,487	_	
och in occasi promon position in the control of the			
	<b>\$</b> 69,20 <b>4</b>	32	
For maintenance,		*28,896	<b>75</b>
Classified as follows:			
	\$5,368	41	
Cleaning basins and sewers	\$5,368 3,140		
	\$5,368 3,140 1,203	10	
Cleaning basins and sewers	3,140	10 62	
Cleaning basins and sewers	3,140 1,203	10 62 00	
Cleaning basins and sewers	3,140 1,203 900	10 62 00 72	
Cleaning basins and sewers	3,140 1,203 900 683	10 62 00 72 54	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools.	3,140 1,203 900 683 617	10 62 00 72 54 83	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent.	3,140 1,203 900 683 617 548 548	10 62 00 72 54 83 34 57	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc.	3,140 1,203 900 683 617 548 548 456	10 62 00 72 54 83 34 57	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses.	3,140 1,203 900 683 617 548 548 456 371	10 62 00 72 54 83 34 57 87	
Cleaning basins and sewers Repairing basins and sewers Cleaning and repairing old drains Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses Cleaning private connections.	3,140 1,203 900 683 617 548 548 456 371 72	10 62 00 72 54 83 34 57 87 91	
Cleaning basins and sewers Repairing basins and sewers Cleaning and repairing old drains Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses Cleaning private connections Telephone lines.	3,140 1,203 900 683 617 548 548 456 371 72 40	10 62 00 72 54 83 34 57 87 91 00 93	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections Telephone lines. Car fares.	3,140 1,203 900 683 617 548 456 371 72 40 35	10 62 00 72 54 83 34 57 87 91 00 93	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections Telephone lines. Car fares. Repairs on gate-house.	3,140 1,203 900 683 617 548 456 371 72 40 35	10 62 00 72 54 83 34 57 87 91 00 93	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses Cleaning private connections. Telephone lines. Car fares Repairs on gate-house Repairs on buildings.	3,140 1,203 900 683 617 548 456 371 72 40 35 15	10 62 00 72 54 83 34 57 87 91 00 93 00 44 07	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections. Telephone lines. Car fares. Repairs on gate-house.	3,140 1,203 900 683 617 548 456 371 72 40 35 15	10 62 00 72 54 83 34 57 87 91 00 93	
Cleaning basins and sewers Repairing basins and sewers Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses Cleaning private connections Telephone lines. Car fares Repairs on gate-house Repairs on buildings Filling eisterns, etc.  Ernest Street Station.	3,140 1,203 900 683 617 548 456 371 72 40 35 15	10 62 00 72 54 83 34 57 91 00 93 00 44 07	
Cleaning basins and sewers Repairing basins and sewers Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses Cleaning private connections Telephone lines Car fares. Repairs on gate-house Repairs on buildings Filling cisterns, etc  ERNEST STREET STATION. Coal and wood	3,140 1,203 900 683 617 548 456 456 351 17 2 40 35 14 14 10	10 62 00 72 54 83 34 57 87 91 00 93 00 44 07 83	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections Telephone lines. Car fares. Repairs on gate-house Repairs on buildings Filling cisterns, etc.  ERNEST STREET STATION. Coal and wood Engineers.	3,140 1,203 900 683 617 548 456 456 351 15 14 10	10 62 00 72 54 83 34 57 87 91 00 93 00 44 07 83	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections Telephone lines. Car fares. Repairs on gate-house. Repairs on buildings. Filling cisterns, etc.  ERNEST STREET STATION. Coal and wood	3,140 1,203 900 683 617 548 456 456 351 17 2 40 35 14 14 10	10 62 00 72 54 83 34 57 87 91 00 93 00 44 07 83	

	<b>\$</b> 16,728	50		
Firemen	429	78		
Cleaning and repairing pumps	354	13		
Supplies	215	47		
Care of grounds	52	65		
Lights	31	44		
Repairs on boilers	30		•	
Repairs on engines	16			
Care of buildings		77		
Repairs on buildings, sewer maintenance yard	1	00		
SEWAGE PRECIPITATION TANK	KS.			
Chemicals	5,964	47		
Labor in sludge disposal	2,334	91		
Labor on sewage precipitation	1,386	64		
Electrical power	<b>50</b> 3	75		
Repairs on machinery	331	89		
Fuel	234	24		
Miscellaneous supplies	169	12		
Lights	42			
Repairs on sewage precipitation tanks	35			
Repairs on buildings	24	21		
	\$28,896	75		
The net expenditure for construction of sewers	to Dece	m-		
ber 31, 1903, inclusive, was	to Dece	m-	\$7,508,25 \$1,038,43	
ber 31, 1903, inclusive, was	to Dece	m-	\$1,038,43	88 41
ber 31, 1903, inclusive, was	to Dece	m-	. ,	38 41
ber 31, 1903, inclusive, was	to Dece	m-	\$1,038,43	38 41
ber 31, 1903, inclusive, was	to Dece	m- 	\$1,038,43	38 41
ber 31, 1903, inclusive, was	to Dece	m- 	\$1,038,43	38 41
ber 31, 1903, inclusive, was	to Dece	80 60	\$1,038,43	38 41
ber 31, 1903, inclusive, was	to Dece	80 60 25	\$1,038,43	38 41
ber 31, 1903, inclusive, was  The net expenditure for maintenance of sewers ber 31, 1903, inclusive, was  Bills deposited with the city treasure for collection from October 1 to December 31, 1903, inclusive, amounted to  As follows:  Miscellaneous work  Old scrap tobin bronze  Cleaning private connections  Laying drains to curbstones	to Dece	80 60 25 43	\$1,038,43	88 41
ber 31, 1903, inclusive, was	to Dece	80 60 25 43 83	\$1,038,43	38 41
ber 31, 1903, inclusive, was  The net expenditure for maintenance of sewers ber 31, 1903, inclusive, was  Bills deposited with the city treasure for collection from October 1 to December 31, 1903, inclusive, amounted to  As follows:  Miscellaneous work  Old scrap tobin bronze  Cleaning private connections  Laying drains to curbstones  Pumping out cellars  Sewer material	\$906 103 45 29 10 1,795	80 60 25 43 83	\$1,038,43	88 41
ber 31, 1903, inclusive, was  The net expenditure for maintenance of sewers ber 31, 1903, inclusive, was  Bills deposited with the city treasure for collection from October 1 to December 31, 1903, inclusive, amounted to  As follows:  Miscellaneous work  Old scrap tobin bronze  Cleaning private connections  Laying drains to curbstones  Pumping out cellars	\$906 103 45 29 10 1,795	80 60 25 43 83 19 20	\$1,038,43	88 41
ber 31, 1903, inclusive, was  The net expenditure for maintenance of sewers ber 31, 1903, inclusive, was  Bills deposited with the city treasure for collection from October 1 to December 31, 1903, inclusive, amounted to  As follows:  Miscellaneous work  Old scrap tobin bronze  Cleaning private connections  Laying drains to curbstones  Pumping out cellars  Sewer material  Testing cement	\$906 103 45 29 10 1,795 5	80 60 25 43 83 19 20	\$1,038,43	88 41
Bills deposited with the city treasure for collection from October 1 to December 1, 1903, inclusive, amounted to  As follows:  Miscellaneous work	\$906 103 45 29 10 1,795 5 \$2,896	80 60 25 43 83 19 20	\$1,038,43	38 4

treasurer and receipted for to the amount 

Amount brought forward	8:5) 746	OK.	
	CO2,130	<b></b>	
Sewer in Dudley street, from junction of Pearl and			
Plain to Eddy street, and across land of the			
city from Eddy street to the head of the city			
dock	3,711	44	
Sewer in Hilton street, from Bogman to Willard			
avenue, and in California avenue, from Virginia			
to Eddy street	1,997	16	
Sewer in Merino avenue, from Manton avenue			
to near Merino bridge	5,359	62	
Sewer in North Main street, east side, from Sten-		4343	
ton avenue to Third street	3,616		
Sewer in Silver Spring street and Northup avenue.		10	
Sewer in Wayland, Cole, and University avenues.	3,714		
Sewer in Weymouth street and Lloyd avenue	2,979	<b>ə</b> 1	
Sewer in Branch avenue, from Veazie street to the			
river near Vandewater street		50	
Sewer in Moshassuck Division, Section 27	2,523		
Sewer in Moshassuck Division, Section 28	1,060		
Sewer in Seekonk Division, Section 29		25	
Sewer in Seekonk Division, Section 30	11,487		
	\$69,204	32	
For maintenance,	•	<b>\$28,896</b>	75
Classified as follows:			
Classified as follows:	\$5,368	41	
	\$5,368 3,140		
Cleaning basins and sewers	\$5,368 3,140 1,203	10	
Cleaning basins and sewers	3,140	10 62	
Cleaning basins and sewers	3,140 1,203	10 62 00	
Cleaning basins and sewers	3,140 1,203 900	10 62 00 72	
Cleaning basins and sewers	3,140 1,203 900 683	10 62 00 72 54	
Cleaning basins and sewers.  Repairing basins and sewers.  Cleaning and repairing old drains.  Use of water.  Inspection of connections  Sundries.	3,140 1,203 900 683 617	10 62 00 72 54 83	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses.	3,140 1,203 900 683 617 548	10 62 00 72 54 83 34	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools.	3,140 1,203 900 683 617 548 548	10 62 00 72 54 83 34 57	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent.	3,140 1,203 900 683 617 548 548	10 62 00 72 54 83 34 57	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc.	3,140 1,203 900 683 617 548 548 456 371	10 62 00 72 54 83 34 57 87	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc.	3,140 1,203 900 683 617 548 548 456 371	10 62 00 72 54 83 34 57 87 91	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections.	3,140 1,203 900 683 617 548 548 456 371 72	10 62 00 72 54 83 34 57 87 91 00	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses Cleaning private connections. Telephone lines.	3,140 1,203 900 683 617 548 456 371 72 40	10 62 00 72 54 83 34 57 87 91 00 93	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections. Telephone lines. Car fares.	3,140 1,203 900 683 617 548 548 456 371 72 40 35	10 62 00 72 54 83 34 57 87 91 00 93 00	
Cleaning basins and sewers Repairing basins and sewers Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections. Telephone lines. Car fares. Repairs on gate-house.	3,140 1,203 900 683 617 548 456 371 72 40 35	10 62 00 72 54 83 34 57 87 91 00 93 00 44	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary superintendent. Horses, wagons, harnesses, etc. Office expenses Cleaning private connections. Telephone lines. Car fares. Repairs on gate-house. Repairs on buildings.	3,140 1,203 900 683 617 548 456 371 72 40 35 15	10 62 00 72 54 83 34 57 87 91 00 93 00 44	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections. Telephone lines. Car fares. Repairs on gate-house. Repairs on buildings. Filling cisterns, etc.	3,140 1,203 900 683 617 548 456 371 72 40 35 15	10 62 00 72 54 83 34 57 87 91 00 93 00 44 07	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses Cleaning private connections. Telephone lines. Car fares. Repairs on gate-house. Repairs on buildings. Filling cisterns, etc.	3,140 1,203 900 683 617 548 548 456 371 72 40 35 15	10 62 00 72 54 83 34 57 87 91 00 93 00 44 07 83	
Cleaning basins and sewers. Repairing basins and sewers. Cleaning and repairing old drains. Use of water. Inspection of connections Sundries. Barn expenses. Tools. Salary, superintendent. Horses, wagons, harnesses, etc. Office expenses. Cleaning private connections. Telephone lines. Car fares. Repairs on gate-house. Repairs on buildings. Filling cisterns, etc.  ERNEST STREET STATION. Coal and wood.	3,140 1,203 900 683 617 548 456 371 72 40 35 15 14 14 10	10 62 00 72 54 83 34 57 87 91 00 93 00 44 07 83	

		_		_	
Amount brought forward	<b>\$</b> 16,728	50			
Firemen	429	78			
Cleaning and repairing pumps	354	13			
Supplies	215	47			
Care of grounds		65			
Lights		14			
Repairs on boilers		82		•	
Repairs on engines		33			
Care of buildings		77			
Repairs on buildings, sewer maintenance yard	1	00			
SEWAGE PRECIPITATION TANK	KS.				
Chemicals	5,964				
Labor in sludge disposal	2,334	91			
Labor on sewage precipitation	1,386	64			
Electrical power	503				
Repairs on machinery	331				
Fuel	234				
Miscellaneous supplies	169				
Lights	42				
Repairs on sewage precipitation tanks	35 24				
Repairs on buildings	24	<u>-1</u>			
	<b>\$</b> 28,896	75			
The net expenditure for construction of sewers	to Dece	111-			
ber 31, 1903, inclusive, was			\$7.508	.250	36
The net expenditure for maintenance of sewers			• • •	,	
ber 31, 1903, inclusive, was			\$1,038	,43	3 41
Bills deposited with the city treasure	er.				
for collection from October 1 to December	er				
31, 1903, inclusive, amounted to .	•		<b>\$2,89</b>	16	30
As follows:					
Miscellaneous work	\$906				
Old scrap tobin bronze	103				
Cleaning private connections	45				
Laying drains to curbstones	20				
Pumping out cellars	10				
	1,795				
	ð	20			
Testing cement					
resting cement	\$2,896	30			
	- '	30			
During the quarter, coupons from bicollected have been returned by the c	ills	30			

treasurer and receipted for to the amount 

Of the above amount of pavement relaid, the cost of relaying 17,200.57 square yards, amounting to \$19,441.26. was paid by the corporations for which the work was done.

During the year the following streets, aggregating 26.174+ miles, have been resurfaced, namely:

Acorn street, from Harris avenue to Kinsley.

Admiral street, from Charles to Berkshire.

Allston street, from River avenue to Walcott street.

Alverson avenue, from Plainfield street to Hartford avenue.

Angell street, from Wayland avenue to Prospect street.

Armstrong avenue, from Brook street to East.

Arthur avenue, from Atwells to Kenyon street. Atwells avenue, from Covell street to Manton avenue.

Bainbridge avenue, from Westminster street to Broadway.

Barton street, from Westminster to Broadway.

Battey street, from Westminster to Vernon.

Belmont avenue, from Carleton street to Mt. Pleasant avenue.

Benefit street, from North Main to Wickenden.

Blackstone street, from Broad to Prairie avenue.

Blackstone boulevard, in part from Irving avenue to Rochambeau.

Bough street, from Westminster to Dike.

Branch avenue, from Moshassuck river to Vandewater street.

Branch avenue, from Veazie street to Douglas avenue.

Bridgham street, from Westminster to Cranston.

Broad street, from Public to Thurbers avenue.

Bucklin street, from Earl to Carter.

Calverly street, from Smith to Edith.

Cambridge street, from Academy avenue to Sears.

Carleton street, from Chalkstone avenue to Hendrick street.

Carpenter street, from Dean to Fountain.

Cedar street, from Acorn to Dean. Cemetery street, from North Main to Frost.

Central street, from Pearl to Bridgham.

Chalkstone avenue, from Charles street to Black.

Charles street, from Branch avenue to Peter street.

Charles street, from Hagan street to city line.

Chattlet street, from Hartford avenue to Barbara street.

Codding street, from Westminster to Cranston.

Concannon street, from Moy to Veazie.

Constitution street, from Lester to Wilson.

Covell street, from Atwells avenue to Amherst street.

Cypress street, from North Main to Hope.

Dean street, from Atwells avenue to Cedar street.

Delaine street, from Valley to Woonasquatucket river.

Delaine street, from Appleton to Manton avenue.

Doane avenue, from Elmgrove to Wayland.

Douglas avenue, from Admiral street to Veazie.

Douglas avenue, from Branch to city line. Douglas avenue, from Mowry street to Admiral. East George street, from Governor to Gano. Ellery street, from Chapin avenue to Willow street. Elmwood avenue, from railroad bridge to city line. Elmwood avenue, from West Friendship street to Adelaide avenue. Erastus street, from Atwells avenue to Amherst street. Esten street, from Smith to Orms. Felix street, from Chalkstone avenue to Valley street. Fountain street, from Dean to Carpenter. Gilmore street, from Lester to Wilson. Governor street, from Wickenden to Waterman. Hammond street, from Westminster to Cranston. Hartford avenue, from Heath street to city line. Hudson street, from Messer to Huntington avenue. Hyat street, from Amherst to Manton avenue. Jewett street, from Calverly to 300 feet westerly. Joslin street, from Atwells avenue to Manton. Judith street, from Lena to near Sterling avenue. Lavaughn street, from Atwells avenue to Amherst street. Livingstone street, from North Main to Printery. Lockwood street, from Broad to Pine. Logan avenue, from Prairie to Ocean street. Manton avenue, from Florence street to King. Manton avenue, from Unit street to Egan. McKinley street from Elmwood avenue to Roger Williams park. Medway street, from Butler avenue to Ives street. Norwood avenue, from Roger Williams park easterly 300 feet. Ocean street, from Public to Thurbers avenue. Orms street, from Valley to Smith. Park avenue, from Cranston line east to Cranston line west. Pearl street, from Plain to Prairie avenue. Plain street, from Point to Public. Plainfield street, from Union avenue to city line. Pocasset avenue, from Plainfield street to Webster avenue. Pond street, from Stewart to Summer. Prairie avenue, from Public street to Broad. President avenue, from Arlington to Elmgrove. Printery street, from Randall to Livingstone. Promenade street, from Calverly to Acorn. Regent avenue, from River to Walcott street. Robin street, from Regent avenue to Allston street. Sayles street, from Burnside to Prairie avenue. Smith street, from city line easterly 1,200 feet. Smithfield avenue, from Branch to Moshassuck river. Smithfield avenue, from Ledge street to city line. Spruce street, from Acorn to Brayton avenue. Sunset avenue, from Killingly street to city line.

Summer street, from Westminster to Broad.

Thayer street, from Angell to Charles Field.

Thompson street, from Wickenden to Tockwotton.

Tobey street, from Westminster to Broadway. Valley street, from Felix to Orms.

Valley street, from Westminster to Atwells avenue.

Vezzie street, from Branch avenue to Woodward road.

Villa avenue, from Arlington to Taber.

Waterman street, from Wayland avenue to Prospect street.

Wayland avenue, from Angell street to Waterman.

West Clifford street, from Point to Dudley.

West Friendship street, from Broad to Elmwood avenue. Whittier avenue, from Plainfield street to Gifford.

Whitney street, from Elmwood avenue to Alger.

Wickenden street, from East to Gano.

Wilson street, from Elmwood avenue to Harrison street.

Willow street, from Messer to Ellery.

Wood street, from Messer to Huntington avenue. Woodward road, from Illinois street to city line.

.397 + miles of streets have been rebuilt during the year, namely:

Branch avenue, from Veazie street to bridge near Vandewater.

Hay street, from Pine to Friendship.

Friendship street, from Hay to Peck.

2.253 + miles of streets have been graded during the year. namely:

Allens avenue, from Sayles street to Seymour.

Alumni avenue, from Weymouth street to Arlington avenue.

Croyland road, from Oxford street to Sayles.

Douglas avenue, from Branch to city line.

Hastings street, from Northup avenue to Ledge street.

Hilton street, from Willard avenue to near Bogman street. Ledge street, from Hastings to Smithfield avenue.

Manton avenue, from Unit street to Egan.

Northup avenue, from Horton street to Silver Spring.

Park avenue, from Cranston line east to Cranston line west.

Rosedale street, from Messer to Ellery.

Sayles street, from Prairie avenue to Gordon.

Silver Spring street, from Ashton to Northup avenue.

Smithfield avenue, from Ledge street to city line.

Troop lane, from Charles street to Walling.

During the quarter, the following work was completed:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Sept. 17, 1903, Regent avenue, From Hardd street to River are will.

Date of order.

Oct. 15, 1903, Sayles street, from Gordon avenue to Prairie.

" " Croyland road, from Oxford street to Sayles.

TO BE PAVED.

No. of resolution. Date of approval.

231. June 5, 1903, Branch avenue, from Veazie street to bridge near Vandewater.

The following work was in progress December 31, 1903, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Oct. 15, 1903, Morris avenue, from Cypress street to Olney.

TO GRADE AND PUT IN GOOD CONDITION.

June 18, 1903, Hastings and Ledge streets.

The following work, ordered by the board of aldermen and city council, had not commenced December 31, 1903, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

te of order.

Vov. 20, 1902, Egan street, from Manton avenue to the bridge.

une 18, 1903, Bath street, from Orms to Calverley.

- " Wayland avenue, from Lloyd to Irving.
- " " Cole avenue, from Lloyd to Irving.
- " " University avenue, from Elmgrove to Slater.

Bills approved on account of highways from October 1 to December 31, 1903, inclusive, amounted to:

2,800 \$93,528

Regular appropriation	<b>\$</b> 92,653 <b>20</b>	
Special appropriation	870 19	<b>\$</b> 93,523 3
Classified as follows:		
Crushed stone— material and labor	\$19,191 55	
Repairs on unpaved streets	15,003 45	
Cleaning streets	14,402 46	
Repairs on paved streets	5,310 93	
Barn expenses	3,335 98	
Blacksmith and wheelwright shop	2,077 34	
Repairs on stone crushers	1,742 10	
Stone paving and crosswalk	1,572 94	
Repairs on buildings, highway yard	1,445 31	
Tools, implements, etc	783 95	
Steam rollers — repairs and supplies	745 94	
Horses, wagons, harnesses, etc	723 67	
Labor on material	602 67	
Superintendent's salary	422 57	
Building driveways, etc	387 11	
Watering streets	242 46	
Watchman at city yard	149 14	
Sundries	145 96	
Office expenses, city yard	77 15	
Fencing streets — material and labor	44 34	
Car faren	10 00	
Telephone lines	5 35	
-		\$68,422
NEW WORK — BUILDING AND I	REBUILD-	
ing Streets, Etc.		
SIDEWALKS CURBED AND GUTTERS	PAVED.	
Croyland road, from Oxford street to Sayles	\$883 50	
Douglas accune, from Chad Brown street to Admiral	870 19	
Morris acenue, from Cypress street to Olney	4,670-25	
Prometade street, north side, from Leland to Cal-		
verley	980-74	
Regent arcum, from Harold street to River avenue	1,667-91	
Soules street, from Gordon avenue to Prairie	1,126 85	
Silver Spring street, from Ashton to Northup avenue	706-98	
-		10,906
PAVE WITH GRANIER BLOCKS, ASPHALT OR BE	ruminous M	ACADAN.
Branc's overage, from Veavie street to bridge near		
Vandewater street.		11,394
GRADE AND PUT IN GOOD COND.	ITION	
Hastory's and configurative section of the control of		2,800

## Bills deposited with the city treasurer for collection from October 1 to December 31, 1903, inclusive, amounted to . . .

**\$17,574** 98

### As follows:

Labor and material	\$15,676	21
Building driveways, etc	896	19
Boarding horses for other departments	503	93
Street sweepings	318	75
Manure from barn	71	00
Use of steam rollers	51	00
Removing trees	32	00
Discharging cargoes at city wharf	21	00
Oil harrels	4	90

\$17,574 98

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$7,147** 76

### As follows:

Labor and material	\$4,354 58
Building driveways, etc	1,082 46
Blacksmith and harness work done for other de-	•
partments	509 34
Boarding horses for other departments	503 93
Street sweepings	359 05
Use of steam rollers	209 50
Manure from barn	71 00
Removing trees	32 00
Discharging cargoes at city wharf	21 00
Oil barrels.	4 90
_	

**\$7,147** 76

### SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from October 1 to December 31, 1903, inclusive, amounted to . . .

\*4,417 15

Charged as follows:				
Granite curbing	\$3,667	27		
Concreting sidewalks	607			
Repairing sidewalks and gutters	141	90		
	<b>\$</b> 4, <b>4</b> 17	15		
Bills deposited with the city treasur	er			
for collection from October 1 to Dece	m-			
ber 31, 1903, inclusive, amounted to			<b>\$2,2</b> 60	95
As follows:				
Granite curbing	\$2,206	97		
Concreting sidewalks	53	98		
	\$2,260	95		
During the quarter, coupons from bi collected have been returned by the ci	ty		<b>*</b> 312	09
treasurer and receipted for to the amount			-	
As follows:				
As follows:	<b>\$</b> 050			
As follows:	\$258 53			
As follows:	53	98		
•	-	98		
As follows:	53	98		
As follows:	53	98		

### Charged as follows:

Salary — city engineer	\$1,125	00
Salaries of assistants	8,977	02
Salaries of clerks	755	03
Car fares	203	60
Supplies - drawing material, etc	129	87
Meteorological instruments and repairs	7	02
Carriage hire	2	68
Instruments and repairs	2	25
Sundries	1	15
	\$11,203	62

### BRIDGES.

The following work was in progress at the end of the quarter, namely:

TO BUILD BRIDGE AND APPROACHES.

No. of resolution. Date of approval.

- June 20, 1902, Over Woonasquatucket river at Egan and Chatlett streets.
- 411. Dec. 19, " Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; River walls between Burnside and Exchange bridges.

Bills approved on account of bridges from October 1 to December 31, 1903, inclusive, amounted to \$5,023 92

### Charged as follows:

Acorn street bridge	84	10
Barn expenses	137	28
Branch avenue culvert	19	61
Building at city yard		63
Burnside bridge	6	82
Cemetery street bridge	4	51
Crawford street bridge	168	66
Eagle street bridge	9	55
Francis street bridge	7	65
Hawkins street bridge	8	55
Horses, wagons, harnesses, etc	20	82
Lumber, hardware, etc	220	94
Manton avenue bridge	231	96
Point street bridge	1,058	53
Promenade street bridge	38	54
Randall street bridge	1	00
Red bridge	372	47
Rent of keeper's house - Washington bridge	36	00
Salaries — Point street bridge	953	25
Amount carried forward	<b>\$</b> 3,300	- 87

			_
Charged as follows:			
Granite curbing	\$3,667 2	7	
Concreting sidewalks	607 9		
Repairing sidewalks and gutters	141 9	0	
-	<b>\$</b> 4,417 1	5	
Bills deposited with the city treasur	rer		
for collection from October 1 to Dece	m-		
ber 31, 1903, inclusive, amounted to		<b>\$2,260</b>	9!
As follows:			
Granite curbing	\$2,206 9	7	
Concreting sidewalks	53 9	18	
-	\$2,260 !	 15	
During the quarter, coupons from bi	1110		
collected have been returned by the co			
· ·	•		
treasurer and receipted for to the amount	ot	<b>*</b> 312	0;
As follows:			
Granite curbing	\$258 1	1	
Concreting sidewalks	53 9	18	
-	\$312 0	— (i)	
CITY ENGINEER.			
Bills approved on account of the c	itv		
engineer's department from October 1	-		
•		311 000	٠.
December 31, 1903, inclusive, amounted	to	<b>*11,203</b>	O:
Charged as follows:			
		<b></b>	
Salary — city engineer	<b>\$</b> 1,125 (	N)	
Salaries of assistants.	8,977 (	22	
Salaries of assistants	8,977 ( 755 (	03	
Salaries of elerks	8,977 (	03 90	
Salaries of assistants.  Salaries of clerks  Car fares  Supplies — drawing material, etc  Meteorological instruments and repairs	755 ( 203 ( 129 8 7 (	03 50 87 92	
Salaries of assistants.  Salaries of clerks	755 ( 203 ( 129 8 7 ( 2 6	03 30 37 92 18	
Salaries of assistants.  Salaries of clerks	755 ( 203 ( 129 8 7 ( 2 2 2	50 50 57 52 58 55	
Salaries of assistants.  Salaries of clerks	755 ( 203 ( 129 8 7 ( 2 6 2 9 1 1	203 360 37 32 38 35 5	
Salaries of assistants.  Salaries of clerks	755 ( 203 ( 129 8 7 ( 2 2 2	203 360 37 32 38 35 5	
Salaries of assistants.  Salaries of clerks	755 ( 203 ( 129 8 7 ( 2 6 2 9 1 1	203 360 37 32 38 35 5	
Salaries of assistants.  Salaries of clerks	755 ( 203 ( 129 8 7 ( 2 6 2 9 1 1	203 360 37 32 38 35 5	

### BRIDGES.

The following work was in progress at the end of the quarter, namely:

TO BUILD BRIDGE AND APPROACHES.

No. of resolution. Date of approval.

- June 20, 1902, Over Woonasquatucket river at Eyan and Chatlett streets.
- 411. Dec. 19, " Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; River walls between Burnside and Exchange bridges.

Bills approved on account of bridges from October 1 to December 31, 1903, inclusive, amounted to **\$5,023** 92

### Charged as follows:

Acorn street bridge	\$4	10
Barn expenses	137	28
Branch avenue culvert	19	61
Building at city yard		63
Burnside bridge	6	82
Cemetery street bridge	4	51
Crawford street bridge	168	66
Eagle street bridge	9	55
Francis street bridge	7	65
Hawkins street bridge	8	55
Horses, wagons, harnesses, etc	20	82
Lumber, hardware, etc	220	94
Manton avenue bridge	231	96
Point street bridge	1,058	53
Promenade street bridge	38	54
Randall street bridge	1	00
Red bridge	372	47
Rent of keeper's house - Washington bridge	36	00
Salaries — Point street bridge	953	25
Amount carried forward	\$3,300	87

### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from October 1 to December 31, 1903, inclusive, amounted to . . .

### Charged as follows:

Salaries of commissioner and secretary	\$1,850 (	DÓ
Salaries of office assistants		
Office supplies	238 (	84
Telephone lines		84
Carriage hire		00
•		_
	\$5.49R (	a.

### CONTINGENCIES.

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$111 00** 

**\$**5,498

As follows:

WALTER F. SLADE,

Commissioner.

CITY DOCUMENT. [No. 14.

EIGHTY-FIFTH

QUARTERLY REPORT

# Department of Public Works

CITY OF PROVIDENCE, R. I.

QUARTER ENDING MARCH 31, 1904.



SNOW & FARHUAN, CYPY PRINCERS.

#### EIGHTY-FIFTH

### QUARTERLY REPORT

## Department of Public Works

CITY OF PROVIDENCE, R. I.

QUARTER ENDING MARCH 31, 1904.



The Providence Prese: Snow & FARNHAM, CITY PRINTERS, 63 Washington Street, 1904.

# THE NEW YORK PUBLIC LIBRARY P150957 ASTOR, LENOX AND TELDEN FOUNDATIONS, 1904

#### REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., April 1, 1904.

#### TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-fifth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending March 31, 1904.

#### WATER WORKS.

January 6th, the proposal of the Warren Foundry and Machine Company to furnish 501 tons of cast iron water pipe of various sizes at \$27.40 per gross ton, was accepted and a contract for the same subsequently executed.

February 3d, a contract was executed with the De Laval Steam Turbine Company to furnish and deliver at Pettaconset pumping station one 50 K. W. turbine generator, for the sum of \$2,800.00.

February 9th, the proposal of the Fuller Iron Works to furnish certain special castings for the high pressure fire service at two cents per pound, was accepted.

The average daily consumption of water during the last quarter was 14,086,612 gallons.

#### Water pipes were laid during the quarter as follows:

8-inch.	
In Montgomery avenue	. 433.67 feet.
6-inch.	
In Spencer street; and in Edgewood avenue in the town of Cranston	
Total or 0.168 + mile.	892.01 feet.
.Water pipes were abandoned or removed duriter as follows:	ing the quar-
6-1мсн.	
From Manchester streetor 0.036+ mile.	. 193.17 feet
Statement of sizes and lengths of pipe laid simencement of the work:	nce the com
36-inch	10,084.00 feet
80-inch	61,328.30 feet
24-inch	43,758.29 fee
90-inch	9,626.59 feet
16-inch	33,812,95 fee
2-inch	104,991.24 fee
10-inch	15.057.14 feet
8-inch	291,143.58 feet
6-inch	1,231,561.64 feet
Total	1,801,363.73 feet
or, 341.167 + miles.	

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total	29,408.71 feet.
or, 5.569 + miles.	

Five fire hydrants have been set during the quarter, one in each of the following locations:

Anthony avenue, north side, 170 feet west of building line of Avon street.

Salem street, west side, 3 feet south of building line of Waldo street. Seabury street, west side, 210 feet south of building line of Potters

Sorrento street, southeast side, 3 feet northeast of line of Benedict street. Wadsworth street, northeast side, 224 feet southeast of line of Sorrento

The total number of fire hydrants, exclusive of those for special service for fire protection, is now nineteen hundred and ninety-four-eighteen hundred and ninety-one flush, and one hundred and three post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, one hundred and twelve water meters were set, of which number forty-six were to replace other The use of eight meters was discontinued.

The following meters were in use at the close of the quarter:

	SIZE.							يز		
KIND.	∯-in.	}-in.	1-in.	1}-in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total.
Ball & Fitts	2,115	435	103	11	5					2,669
Ball & Fitts, rotary			4	7		2	1			14
Crown	9,379	1,092	322	139	37	24	25	1		11,019
Empire	960	137	62	45	13	1	1			1,219
Fales, Jenks & Sons			1							1
Gem					12	29	16	3		60
Thomson	4,218	4:24	75	53	22	7	7	2		4,80
Trident	102		1							100
Venturi									1	1
Worthington	1				1					:
	16,775	2,088	568	255	90	63	50			19,896

One hundred and seventeen plumbers' licenses were issued during the quarter, all of which expire December 31, 1904.

Six hundred and seven permits to do plumbing work were issued during the quarter.

Forty-one applications for water were made during the quarter, making the total number twenty-six thousand one hundred and twenty-five.

The number of new service stops opened during the quarter was forty-three.

The total number of service stops opened to March 31, 1904, inclusive, was twenty-five thousand four hundred and sixty-five. The number in actual use March 31, 1904, was twenty-three thousand three hundred and three.

The amount of bills approved on account of water works from January 1, to March 31, 1904, inclusive, was:

Classified as follows:

#### PETTACONSET PUMPING STATION.

Coal and wood	\$4,674	19	
Sundries	751	32	
Engineers	697	32	
Firemen	594	00	
Superintendence	345	00	
Labor on fuel	203	80	
Repairs on boilers	141	46	
Oil, waste and packing	90	74	
Barn expenses	46	05	
Worthington high-duty engine	39	64	
Care of grounds	24	(10)	
Corliss pumping engine and house,	18	60	
Lights	16	50	
Cornish engine house	8	43	
·		_	<b>\$</b> 7,651 05
Amount carried forward			\$7,651 05

Amount brought forward	-	<b>\$7,651</b> 0
Sockanosset Reservoir.		
Watchman	<b>\$</b> 168 00	
Sundries	26 90	
	<del></del>	194 9
Hope Pumping Station.		
Firemen	<b>\$</b> 384 30	
Coal and wood	286 53	
Engineers	<b>276 00</b>	
Lights	59 60	
Bundries	<b>54 90</b>	
Oil, waste and packing	8 50	
Repairs on boilers	6 69	1.070
·		1,076 5
Hope Reservoir.		400.0
Watchman		189 0
FRUIT HILL RESERVOIR.		
Watchman	<b>\$189 00</b>	
Sundries	156 72	
-		345 7
MRTER DEPARTMENT.		
Setting and repairing meters	\$1,522 28	
Water meters	581 71	
-		2,103 9
Pipe Line and Service Sto	PS.	
Repairs	\$3,828 98	
Inspection of pipe line and services	1,136 87	
Superintendence — salaries	783 00	
		5,748 8
PIPE YARD.		
Cast iron water pipe	<b>\$</b> 14,413 95	
Laying water pipe	5,710 32	
Special castings	1,727 71	
Stop valves	1,495 00	
Taps and stops	967 23	
Fire hydrants, boxes and covers	950 00	
Tools	514 04	
Laying service pipe	456 87	
Pig lead and tin	391 73	
Labor on and carting pipe	162 13	
Date of and Carting pipe	52 30	
Pipe yard, office expenses		
		26,841 2

**\$441,248 06** 

Amount brought forward		<b>\$44</b> ,151 3
Miscellaneous.		
Thawing out water pipes	\$4,172 12	
Clerks' and inspectors' salaries	1,425 60	
Barn expenses	634 53	
Prevention of defilement of the Pawtuxet Horses, wagons, harnesses, etc	549 99	
Sundries	348 96 95 89	
Car fares	75 00	
		7,302 09
		\$51,453 40
For construction,		<b>\$6,866</b> 49
Charged as follows:		
Installation of sand filtration plant at Pettaconset,	<b>\$</b> 6,866 <b>4</b> 9.	
The total expenditures to March	31,	
1904, inclusive, was	. \$9,6	55,395 07
The net expenditure for maintenance from Ja March 31, 1904, inclusive, was	ch 31, 1904,	\$46,558 12 \$2,041,317 42 \$6,896 4
The value of the water works syste	m	
•	•	
January 1, 1904, as estimated by the ci engineer, was as follows:	ty	
Pettaconnet pumping station	\$340.694 00	
Iope pumping station		
Sockanosset, Hope and Fruit Hill reservoirs	•	
dain lines and distribution pipes 2		
Real estate in Pawtuxet and Lincoln	15,975 00	
Cools and supplies	44,939 96	<b>A</b> O OOO FOA O
_		<b>\$</b> 3,938,533 2
Dilly devested with the site tracers		
Bills deposited with the city treasur		
or collection from January 1 to March 3	1,	

1904, inclusive, amounted to . . .

#### As follows:

•			
Water	\$435,745	75	
Water meters	2,469	25	
Setting and repairing meters	1,554	<b>52</b>	
Labor and material, laying services, etc.,	1,174	79	
Penalties		00	
Rent of real estate	143	00	
Repairs on pipe line	7	75	
Permanently closing service stops	5	00	
			\$441.248.06

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$**437,622 56

#### As follows:

Water	\$432,579	28		
Water meters	2,464	25		
Setting and repairing meters	1,352	81		
Labor and material, laying services, etc	838	11		
Rent of real estate	151	75		
Penalties	148	00		
Repairs on pipe line	83	36		
Permanently closing service stops	5	00		
			0.497 COO	z.o

\$437,622 56

#### SEWERS.

During the quarter ending March 31, 1904, ninety permits were issued to drain-layers — thirty for new work and sixty for extension and repairs of drains.

One hundred and twenty-seven drain-layers' licenses were issued during the quarter, all of which expire December 31, 1904.

February 2d, the proposal of J. H. Lane & Company to furnish and deliver 5,000 yards of No. 13 chain cloth at 29 cents per yard, was accepted.

February 23d, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials or rock excavation.]

#### To Frederick E. Shaw.

		_				
	esolution					
<b>52.</b>	Feb.	2,	1904,	Rosedale street, from		
				Messer to Ellery, .	\$774	00
<b>53</b> .	44	66	66	Admiral street, from		
				Hillwood to end of		
	•			present sewer in Admiral,	638	70
<b>55.</b>	44	44	44	Algonquin street, from		
				Crescent to Holmes	668	50
56.	44	"	66	Ninth and Pettis streets,	712	
57.	44	"	66	•	112	υv
51.	••	••	••	Washington avenue, from	000	=^
<b>5</b> 0				Virginia to Eddy street,	996	10
<b>58.</b>	"	"	"	Thayer, Manning and		
				Brook streets, (storm		
				sewer),	13,947	<b>5</b> 5
<b>6</b> 0.	46	44	. "	Alverson, Eastwood,		
				Laurel Hill and Hart-		
				ford avenues,	12,673	95
			To C	HARLES CRANKSHAW.		
54.	Feb.	2,	1904,	Chalkstone avenue, from		
		·		Lisbon street to River		
				avenue,	<b>\$</b> 625	65
					4020	00
			To 1	Frank A Gammino.		
<b>5</b> 9.	Feb.	2,	1904.	Fairview and Pemberton		
		,	,	streets,	<b>\$849</b>	66

During the quarter, the construction of the following sewer was completed, namely:

No. of resolution. Date of approval.

Date of completion.

136. April 7, 1903, Section 30, Seekonk Division, Improved Sewerage System, Jan. 12, 1904.

Work upon the following sewers was in progress at the close of the quarter, namely:

No. of resolution. Date of approval.

- 230. June 5, 1903, West Park and Bath streets.
- 322. Sept. 18, 1903, Dudley street, from Pearl and Plain to the head of the city dock.
  - 59. Feb. 2, 1904, Fairview and Pemberton streets.

Work upon the following sewers, completing the work ordered by the city council, had not commenced March 31, 1904, namely:

No. of resolution. Date of approval.

- 229. June 5, 1903, Reservoir avenue, west side, from Crescent street to Algonquin.
- 319. Sept. 18, 1903, Elton street, from a low point 100 feet east of Taber avenue to Elmgrove.
- 320. " " Vandewater street, from Douglas avenue to Branch.
  - 52. Feb. 2, 1904, Rosedale street, from Messer to Ellery.
  - 53. " " " Admiral street, from Hillwood to end of present sewer in Admiral.
  - 54. " " Chalkstone avenue, from Lisbon street to River avenue.
  - 55. " " " Algonquin street, from Crescent to Holmes.
  - 56. " " Ninth and Pettis streets.
  - 57. " " Washington avenue, from Virginia to Eddy street.

No. of resolution. Date of approval.		
58. Feb. 2, 1904, Thayer, Manning	and Brook str	eets.
(storm sewer).		•
60. " " Alverson, Eastwood	I Laurel Hill	and
•	t, Daniet Hat	GAG.
Hartford avenues.		
The amount of bills approved on accou	nt of sewers f	rom
January 1 to March 31, 1904, inclusive,	was as follows	:
, ,		
FOR CONSTRUCTION.		
Regular appropriation	<b>\$</b> 3,827 86	
Improved sewerage appropriation	4,464 26	
<del>-</del>	<b></b>	92 12
OL 1 CH		
Charged as follows:		
Material	\$1,345 77	
Contract reservations	528 09	
Sundries	275 02	
Testing cement	138 25	
Tools	3 05	
Sewer in Dudley street, from junction of Pearl and		
Plain to Eddy street, and across land of the city from Eddy street to the head of the city		
dock	1,050 48	
Sewer in Fairview and Pemberton streets	54 53	
Sewer in West Park and Bath streets	443 17	
Sewer in Seekonk Division, Section 30	4,453 76	
	<b>\$</b> 8,292 12	
	<b>C</b> 0,202 12	
For maintenance,	. \$29,578	33
	·	
Classified as follows:		
Cleaning basins and sewers	<b>\$</b> 7,080 75	
Repairing basins and sewers	3,294 37	
Tools	1,035 78	
Inspection of connections	598-92	
Cleaning and repairing old drains	516-33 460-99	
Barn expenses	400 99 408 00	
Salary, superintendent  Horses, wagons, harnesses, etc	328 56	
Office expenses	95 07	
Omet expenses		
Amount carried forward	\$13,818 77	

Amount brought forward	<b>\$</b> 13, <b>8</b> 18 <b>7</b> 7	
Cleaning private connections	54 00	)
Telephone lines	30 10	
Repairs on buildings	28 43	}
Car fares	25 00	)
Sundries	20 90	•
Repairs on gate-house	37	
ERNEST STREET STATION.		
Coal and wood	1,508 72	
Engineers	831 33	
Cleaning screens	622 38	
Firemen	427 69	
Cleaning and repairing pumps	395 28	
Supplies	79 87	
Care of grounds	62 42	
Lights	33 36	
Repairs on engines	25 76	
Repairs on boilers	20 95	
Repairs on buildings	5 50	
.Care of buildings	5 11	
SEWAGE PRECIPITATION TANK	KS.	
Chemicals	5,282 49	
Labor in sludge disposal	2,400 93	
Labor on sewage precipitation	1,606 94	
Miscellaneous supplies	1,403 23	
Electrical power	466 50	
Fuel	308 24	
Repairs on buildings	56 47	
Lights	34 68	
Repairs on machinery	22 91	
	\$29,578 33	
	•	
The net expenditure for construction of sewers 31, 1904, inclusive, was		
The net expenditure for maintenance of sewers 31, 1904, inclusive, was	to March	
, , , ,		. ,,
Dille demonited with the sites to see		
Bills deposited with the city treasure		
for collection from January 1 to Marc	h	
31, 1904, inclusive, amounted to .		<b>\$19</b> 8 64
or, root, inclusive, amounted to .	•	<b>Ф150 04</b>

As follows:				
Sewer material	\$108	74		
Cleaning private connections	85	00		
Testing cement	4	90		
_	\$198	64		
During the quarter, coupons from bill collected have been returned by the cit treasurer and receipted for to the amount of	y		\$383	63
As follows:				
Miscellaneous work	\$170	64		
Sewer material	130	34		
Cleaning private connections	62	25		
Filling cisterns, etc	11	50		
Testing cement	8	90		
·	<b>\$3</b> 83	63		

#### HIGHWAYS.

One permit to open street was issued during the quarter.

February 10th, the proposal of James Beaton to furnish and deliver circular curbing to the amount of \$162.50, was accepted.

February 10th, the proposal of Nelson A. Bennett to furnish and deliver circular curbing, was accepted. Amount, \$162.50.

Statements have been prepared of the cost of curbstones, ascertained by the commissioner and certified to the board of aldermen for approval, as follows:



Bolander street, from Abbott to Grandview	<b>\$</b> 713	95
Calais street, from Jewett to West Park	289	66
Croyland road, from Oxford street to Sayles	551	76
Hamlin street, from Roger Williams park to Elmwood avenue.	892	79
Hazael street, from Douglas avenue to General street	309	82
Laurel Hill avenue, from present curbing to Pocasset	633	21
Lenox avenue, from Melrose street to Hamilton	769	73
Moses Brown street, from Angell to South Angell	436	99
Phillips street, from Hope to Morris avenue	708	16
Promenade street, north side, from Leland to Calverley	430	24
Regent avenue, from Harold street to River avenue	688	34
Sayles street, from Gordon avenue to Prairie	548	32
Sears avenue, from Atwells to its northerly termination	704	97
Silver Spring street, from Ashton to Northup avenue	1,668	68
Suffolk street, from Admiral to Salina	456	
Tuxedo avenue, from Amherst street to Atwells avenue	360	82
Wallace street, from Webster avenue to Priscilla	690	78
-	\$10,854	36

The following work was in progress March 31, 1904, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Nov. 20, 1902, Egan street, from Manton avenue to the bridge.

Oct. 15, 1903, Morris avenue, from Cypress street to Olney.

TO GRADE AND PUT IN GOOD CONDITION.

June 18, 1903, Hastings and Ledge streets.

The following work, ordered by the board of aldermen and city council, had not commenced March 31, 1904, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

June 18, 1903, Bath street, from Orms to Calverley.

- " " Wayland avenue, from Lloyd to Irving.
- " " Cole avenue, from Lloyd to Irving.
- " " University avenue, from Elmgrove to Slater.

Date of order.

Dec. 17, 1903, Hilton street, from Willard avenue to Bogman street.

Jan. 21, 1904, Elton street, from Taber avenue to Elmgrove.

Bills approved on account of highways from January 1 to March 31, 1904, inclusive, amounted to:

**\$**43,007 64

#### Classified as follows:

Removing snow and ice	<b>\$</b> 21,135 <b>6</b> 2	
Crushed stone — material and labor		
Cleaning streets	2,675 20	
Barn expenses	2.664 42	
Blacksmith and wheelwright shop	2,603 13	
Steam rollers — repairs and supplies	2,146 52	
Repairs on stone crushers	1,635 50	
Stone — paving and crosswalk	787 30	
Labor on material	738 40	
Tools, implements, etc	554 45	
Repairs on buildings, highway yard	506 61	
Superintendent's salary	442 00	
Repairs on unpaved streets	337 00	
Horses, wagons, harnesses, etc	213 13	
Watchman at city yard	156 00	
Office expenses, city yard	72 99	
Sundries	47 17	
Repairs on paved streets	23 23	
Car fares	20 00	
Building driveways, etc	16 50	
Fencing streets - material and labor	11 <b>0</b> 0	
Telephone lines	5 35	
- ·		\$41,742 90

## NEW WORK — BUILDING AND REBUILDING STREETS, ETC.

To GRADE AND PUT IN GOOD CONDITION.

1,3% (4	Hastings and Le
·	
\$43,007 64	

Bills deposited with the city treasurer for collection from January 1 to March 31, 1904, inclusive, amounted to . . .

**\$2.237** 38

#### As follows:

Blacksmith and harness work done for other de-		
partments	\$931	80
Labor and material	632	11
Boarding horses for other departments	273	84
Street sweepings	249	45
Manure from barn	68	00
Building driveways, etc	57	68
Discharging cargoes at city wharf	19	50
Removing snow and ice	. 5	00

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$15,191 15

#### As follows:

Labor and material  Blacksmith and harness work done for other de-	\$14,095	44
partments	418	54
Boarding horses for other departments	273	84
Street sweepings	193	15
Building driveways, etc	86	18
Manure from barn	68	00
Use of steam rollers	51	00
Removing snow and ice	5	00

\$15,191 15

\$2,237 38

#### SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from January 1 to March 31, 1904, inclusive, amounted to

**\$**532 31

#### Charged as follows:

Concreting sidewalks	\$434 48 97 83
-	\$5\$2 31

During the quarter, coupons from curbing bills were returned by the city treasurer and receipted for to the amount of . . .

**\$1,999** 52

#### CITY ENGINEER.

Bills approved on account of the city engineer's department from January 1 to March 31, 1904, inclusive, amounted to

**\$12,161** 75

#### Charged as follows:

Salary — city engineer	\$1,125 00
Salaries of assistants	9,750 25
Salaries of clerks	789 75
Supplies — drawing material, etc	243 06
Car fares	202 30
Instruments and repairs	23 84
Telephone lines	22 87
Carriage hire	4 13
Sundries	30
${\bf Meteorological\ instruments\ and\ repairs}$	25
-	

\$12,161 75

#### BRIDGES.

February 17th, a contract for furnishing and erecting the steel superstructure of Post Office bridge, and Exchange bridge widening, was awarded to Lewis F. Shoemaker & Company, Philadelphia, Pa., and the same was subsequently executed.

The following work was in progress at the end of the quarter, namely:

#### TO BUILD BRIDGE AND APPROACHES.

#### No. of resolution. Date of approval.

- 220. June 20, 1902, Over Woonasquatucket river at Egan and Chatlett streets.
- 411. Dec. 19, " Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; River walls between Burnside and Exchange bridges.

**\$3,862 29** 

#### Charged as follows:

Acorn street bridge	<b>\$</b> 1	80
Barn expenses	115	34
Building at city yard	4	95
Car fares	25	15
Crawford street bridge	88	35
Exchange bridge	9	35
Francis street bridge	3	47
Horses, wagons, harnesses, etc		47
Lumber, hardware, etc		50
Manton bridge		60
Manton avenue bridge		05
Merino bridge		28
Point street bridge		
Promenade street bridge		20
Randall street bridge		80
Red bridge		
Rent of keeper's house — Washington bridge		00
Salaries — Point street bridge		
Salaries — Red bridge	531	
Salaries — Washington bridge	513	
Sundries	405	
Telephone lines	9	68
Tools	151	
Washington bridge		
Weybosset bridge	66	76

**\$3,86**2 29

Bills deposited with the city treasurer for collection from January 1 to March 31, 1904, inclusive, amounted to

\$700 64

#### As follows:

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**≱**700 64

#### As follows:

Bills approved for account of building the Merino bridge, from January 1 to March 31, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of

**\$1,198** 8

Bills approved for account of building the river walls between the Burnside and Exchange bridges, from January 1 to March 31, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of

**\***475 :

#### PUBLIC LIGHTS.

Bills approved on account of the public lights from January 1 to March 31, 1904, inclusive, amounted to

**269.325** :

Charged as follows:

Arc lights	\$51,039 68
Incandescent lights	11,864 97
Welsbach lights	
Salaries	
Setting and removing gas posts	65 71
	\$69,325 5

#### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from January 1 to March 31, 1904, inclusive, amounted to

. . \$4,969 77

#### Charged as follows:

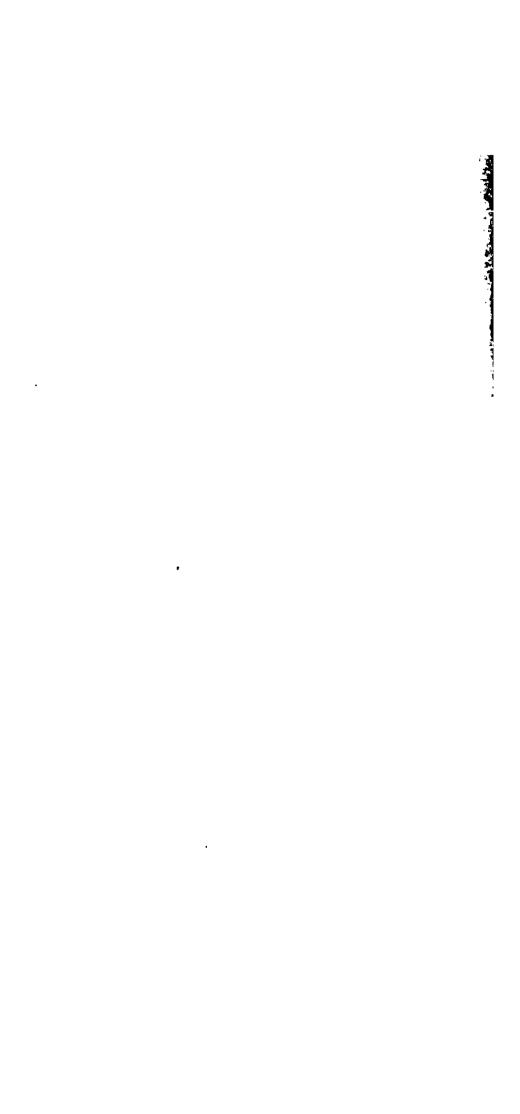
Salaries of commissioner and secretary	\$1,850 00
Salaries of office assistants	2,917 78
Office supplies	201 99
•	84 969 77

#### CONTINGENCIES.

Bills approved for the inspection of electric wires from January 1 to March 31, 1904, inclusive, have been paid from the appropriation for contingencies to the amount of • . .

**\$2** 00

WALTER F. SLADE, Commissioner.



CITY DOCUMENT.

[No. 17.

EIGHTY-SIXTH

QUARTERLY REPORT

# Department of Public Works

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 80, 1904.

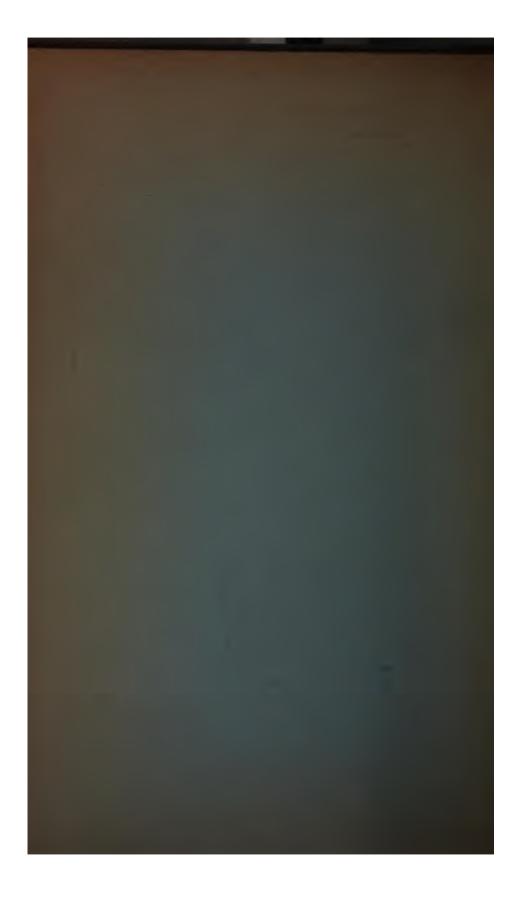


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CITY DOCUMENT. [No. 17.

#### **EIGHTY-SIXTH**

### QUARTERLY REPORT

OF THE

## Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1904.



Che Providence Presa:

SNOW & FARNHAM, CITY PRINTERS,

43 Washington Street,

1904.



1904.]

CITY DOCUMENT. [No. 17.

#### EIGHTY-SIXTH

### QUARTERLY REPORT

OF THE

## Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1904.



Che Providence Presa:

SNOW & FARNHAM, CITY PRINTERS,

63 Washington Street,

1904.

# PUBLIC LIBRARY PUBLIC LIBRARY P153644 ASTOR, LENOX AND TILBEN FOUNDATIONS 1904

#### REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., July 1, 1904.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-sixth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending June 30, 1904.

#### WATER WORKS.

A pril 4th, the proposal of the Allis Chalmers Company, of Milwaukee, Wis., to furnish and erect a 25,000,000 gallon high-duty pumping engine at Pettaconset, was accepted and a contract subsequently executed. Amount \$95,000.00.

April 29th, the proposal of the Wheeler Condenser and Engineering Company to furnish for the Pettaconset pumping station a Wheeler admiralty surface condenser, for the sum of \$940.00, f. o. b. New York, was accepted.

May 25th, the proposal of the Alphons Custodis Chimney Construction Company to erect at the Pettaconset pumping station a chimney 150 feet high and 7 feet diameter, for the sum of \$5,000.00, was accepted.

June 3d, the proposal of the Providence Coal Company to furnish and deliver at Pettaconset 400 tons of New River coal during June, 1904, at \$3.62\frac{1}{2} per net ton, was accepted.



1904.]

CITY DOCUMENT. [No. 17.

#### EIGHTY-SIXTH

## QUARTERLY REPORT

OF THE

# Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1904.



Che Providence Presa:

SNOW & FARNHAM, CITY PRINTERS,

13 Washington Street,

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0.7	SIZE.								-	
KIND.	≬-in.	Į-in.	1-in.	1}-in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total.
Ball & Fitts	2,071	427	100	11	5				,	2,614
Ball & Fitts, rotary			4	7		2	1			14
Crown	9,425	1,104	327	143	38	25	25	1		11,088
Empire	1,002	143	63	46	13	1	1			1,269
Fales, Jenks & Sons			1	*1*111					210,444	1
Gem					13	28	16	.8		60
Thomson	4,335	424	75	53	22	7	7	2		4,925
Trident	102	,	1			.,				103
Venturi			y		,				1	1
Worthington	1				1					2
	16,936	2,098	571	260	92	63	50	6	1	20,077

Nine plumbers' licenses were issued during the quarter, making the total number one hundred and twenty-six, all of which expire December 31, 1904.

Seven hundred and ninety-eight permits to do plumbing work were issued during the quarter.

Two hundred and sixty-six applications for water were made during the quarter, making the total number twenty-six thousand three hundred and eighty-one.

The number of new service stops opened during the quarter was two hundred and one.

The total number of service stops opened to June 30, 1904, inclusive, was twenty-five thousand six hundred and sixty-six. The number in actual use June 30, 1904, was twenty-three thousand six hundred and forty-four.

The amount of bills approved on account of water works from April 1, to June 30, 1904, inclusive, was:

June 7th, the proposal of the Eastern Coal Company to furnish all the egg size anthracite coal needed to July 1, 1905, at \$5.15 per net ton, at their yard, was accepted.

June 23d, the proposal of the Pocasset Ice Company to furnish the ice required in the various drinking fountains during the season of 1904, for the sum of \$2.25 per ton, was accepted.

June 29th, the proposal of The Congdon and Carpenter Company to furnish and deliver at the city yard 10,000 pounds of AAA \(\frac{5}{8}\)-inch lead pipe for \(\frac{\$5.20}{20.20}\) per 100 pounds, was accepted.

The proposal of the Eastern Coal Company to furnish and deliver at Hope pumping station the No. 2 buckwheat anthracite coal needed to July 1, 1905, at \$2.48 per net ton, was accepted.

June 30th, the proposal of the Eastern Coal Company to furnish and deliver at Pettaconset during July, 1904, 400 tons of New River coal at \$3.58 per net ton, was accepted.

The average daily consumption of water during the last quarter was 12,908,326 gallons.

Water pipes were laid during the quarter as follows:

#### 8-inch.

In Admiral, East River, Pitman and South Angell streets; and in Smith street in the town of North Providence.... 2,578.41 feet.

#### 6-inch.

6,012.39 feet.

or 1.627 + mile.

	SIZE.								1	
KIND.	}-in.	₫-in.	1-in.	t≩-in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total.
Ball & Fitts	2,071	427	100	11	5		,			2,614
Ball & Fitts, rotary			4	7		2	1	ain.		14
Crown	9,425	1,104	327	143	38	25	25	1		11,088
Empire	1,002	143	63	46	13	1	1			1,260
Fales, Jenks & Sons			1				*****			14
Gem					13	28	16	3		- 60
Thomson	4,335	424	75	53	22	7	7	2		4,92
Trident	102		1							103
Venturi				,		*****	*****		1	
Worthington	1				1					3
	16,936	2,098	571	260	92	63	50	6	1	20,077

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The amount of bills approved on account of water works from April 1, to June 30, 1904, inclusive, was:

\$10,69

For maintenance,	. \$37,809	
Classified as follows:		
PETTACONSET PUMPING STATIC	on.	
Coal and wood	\$3,921 4	8
Sundries	783 5	<b>:3</b>
Engineers	634 5	
Firemen	521 3	-
Superintendence	373 7	
Care of grounds	267 0	11
Allis Chalmers high-duty engine, to furnish and	150.0	<b>~</b>
erect	159 0 144 7	
Repairs on boilers	79 9	
Barn expenses	59 4	-
Oil, waste and packing	33 8	
Corliss pumping engine and house	25 1	-
Worthington high-duty engine	15 9	
Cornish engine house	5 4	.6
Lights	2 9	0
Real estate	2 8	
-		<b>\$7,02</b> 1
Sockanosset Reservoir.		
Sundries	<b>\$</b> 253 3	9
Watchman	182 0	
-		- 43
HOPE PUMPING STATION.		
Coal and wood	<b>\$438</b> 6	5
Firemen	403 9	0
Engineers	299 0	-
Repairs on boilers	224 8	
Sundries	48 1	
Lights	45 2	
Oil, waste and packing	12 6 4 4	
Holly pumping engine		- 1,47
Hope Reservoir.		,
	3401 (	
Sundries	\$431 9	
Watchman	204 7	5 - 63
FRUIT HILL RESERVOIR.		
Sundries	<b>\$</b> 917_1	6
Watchman	204 7	5
-		- 1,12

Amount carried forward.....

Amount brought forward		\$10,692 72
METER DEPARTMENT.		
Vater meters	\$3,580 11	
Setting and repairing meters	1,844 16	
-		5,424 27
PIPE LINE AND SERVICE STOR	·s.	
Repairs	<b>\$</b> 3,616 65	
Inspection of pipe line and services	953 67	
Superintendence — salaries	849 25	
-		5,419 57
PIPE YARD.		
Laying water pipe	<b>\$4,</b> 286 43	
Special castings	3,381 58	
Fire hydrants, boxes and covers	2,230 03	
Laying service pipe	1,439 28	
Stop valves	467 00	
Taps and stops	246 56	
Service pipe	213 30	
Tools	185 79	
Labor on and carting pipe  Pipe yard, office expenses	138 15 10 57	
Repairs on pipe yard buildings	3 98	
Cast iron water pipe.	2 20	
-		12,604 87
MISCELLANEOUS.		
Clerks' and inspectors' salaries	\$1,544 40	
Barn expenses	650 27	
Prevention of defilement of the Pawtuxet	549 99	
Horses, wagons, harnesses, etc	305 25	
Telephone lines	245 36	
Inspection of water pipe with reference to electro-		
lysis	182 13	
Car fares.	65 00	
Sundries	48 35	
Thawing out water pipes	46 50	
Public drinking fountains and troughs	31 05	3,668 30
		<b>\$</b> 37,809 73

Charged as follows:

Installation of sand filtration plant at Pettaconset, \$18,007 85.

The total expenditure to June 1904, inclusive, was		11.21
		,
The net expenditure for maintenance from	April 1 to	
June 30, 1904, inclusive, was  The net expenditure for maintenance to Jun	ie 30, 1904,	\$29
inclusive, was	7 1, 1902, to	\$2,071, \$124,
0 and 00, 1002, 1102a01.0, 11ab	••••••	4.21
The value of the water works syste	em.	
January 1, 1904, as estimated by the c		
· · · · · · · · · · · · · · · · · · ·	ity	
engineer, was as follows:		
Pettaconset pumping station	\$340.694 00	
Hope pumping station		
Sockanosset, Hope and Fruit Hill reservoirs		
Main lines and distribution pipes	2,703,862 95	
Real estate in Pawtuxet and Lincoln	15,975 00	
Tools and supplies	44,939 96	<b>A</b> n 020
	44,939 96	<b>\$</b> 3,938
Tools and supplies	44,939 96	<b>\$</b> 3,938
Bills deposited with the city treasu	44,939 96 rer	<b>\$</b> 3,938
Tools and supplies  Bills deposited with the city treasu for collection from April 1 to June	44,939 96 arer 30,	<b>\$</b> 3,938
Tools and supplies  Bills deposited with the city treasu for collection from April 1 to June	44,939 96 arer 30,	<b>\$</b> 3,938
Bills deposited with the city treasu for collection from April 1 to June 1904, inclusive, amounted to	44,939 96 arer 30,	.,
Tools and supplies  Bills deposited with the city treasu for collection from April 1 to June	44,939 96 arer 30,	
Bills deposited with the city treasure for collection from April 1 to June 1904, inclusive, amounted to	44,039 96 arer 30,	
Bills deposited with the city treasu for collection from April 1 to June 1904, inclusive, amounted to  As follows:	44,939 96  arer 30, . \$8	
Bills deposited with the city treasure for collection from April 1 to June 1904, inclusive, amounted to  As follows:	44,939 96  arer 30, . \$3  \$79,001 66 3,585 25	
Bills deposited with the city treasure for collection from April 1 to June 1904, inclusive, amounted to	44,939 96  arer 30, . \$8	
Bills deposited with the city treasure for collection from April 1 to June 1904, inclusive, amounted to	44,939 96  arer 30, . \$6  \$79,001 66 3,585 25 3,346 96	
Bills deposited with the city treasure for collection from April 1 to June 1904, inclusive, amounted to	\$79,001 66 3,585 25 3,346 96 1,907 06 165 67 96 75	
Bills deposited with the city treasure for collection from April 1 to June 1904, inclusive, amounted to	\$79,001 66 3,585 25 3,346 96 1,907 06 165 67 96 75 50 00	
Bills deposited with the city treasure for collection from April 1 to June 1904, inclusive, amounted to	879,001 66 3,585 25 3,346 96 1,907 06 165 67 96 75 50 00 25 30	
Bills deposited with the city treasure for collection from April 1 to June 1904, inclusive, amounted to	\$79,001 66 3,585 25 3,346 96 1,907 06 165 67 96 75 50 00 25 30 15 00	
Bills deposited with the city treasure for collection from April 1 to June 1904, inclusive, amounted to	879,001 66 3,585 25 3,346 96 1,907 06 165 67 96 75 50 00 25 30	.,

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$92,49.

# As follows:

LES TOTTOWN.				
Water	\$84,336	72		
Water meters	3,580	00		
Labor and material, laying services, etc	2,153	95		
Setting and repairing meters	2,019	95		
Repairs on pipe line	173	42	•	
Bent of real estate		75		
Penalties	50	00		
0ld rubber	25	30		
Permanently closing service stops	15	00		
Blue prints of water distribution	4	00		
Freight on turbine generator from Boston	40	66		
			<b>9</b> 92,495 7	5

#### SEWERS.

During the quarter ending June 30, 1904, three hundred and sixty-four permits were issued to drain-layers — one hundred and ninety-one for new work and one hundred and seventy-three for extensions and repairs of drains.

Fifteen drain-layers' licenses were issued during the quarter, making the total number one hundred and forty-two, all of which expire December 31, 1904.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

Wallace street, from near Webster avenue to Priscilla	\$990 4	3
Jewett street, from a point about 510 feet east of Valley to Valley.	1,628 6	5
North Main street, east side, from Stenton avenue to Third street.	1,631 6	4
Weymouth street and Lloyd avenue	3,837 2	.7
Hilton street and California avenue	3,853 7	5
Tuxedo and Regent avenues	3,115 2	:0
Wayland, Cole and University avenues	5,558 2	0:
Branch avenue, from near Langdon street to near Moshassuck		
river	14,047 0	3
Branch avenue, from near Langdon street to Veazie	12,860 2	0
Algonquin street and Reservoir avenue	1,261 5	8
Amount carried forward	<b>\$48.78</b> 3 9	- 5

The net expenditure for maintenance to June 30, 1904, inclusive, was	12 66 9,741 36 9,058 78 4,665 55
The net expenditure for maintenance from April 1 to June 30, 1904, inclusive, was	9,741 36 ,058 78
June 30, 1904, inclusive, was	,058. 78
The net expenditure for maintenance to June 30, 1904, inclusive, was	,058. 78
The net expenditure for construction from July 1, 1902, to June 30, 1904, inclusive, was	
The value of the water works system, January 1, 1904, as estimated by the city engineer, was as follows:  Pettaconset pumping station	, <b>66</b> 5 55
January 1, 1904, as estimated by the city engineer, was as follows:  Pettaconset pumping station	
engineer, was as follows:  Pettaconset pumping station	
Pettaconset pumping station	
Hope pumping station	
Hope pumping station	
Main lines and distribution pipes	
Real estate in Pawtuxet and Lincoln	
Bills deposited with the city treasurer for collection from April 1 to June 30, 1904, inclusive, amounted to	
Bills deposited with the city treasurer for collection from April 1 to June 30, 1904, inclusive, amounted to	
for collection from April 1 to June 30, 1904, inclusive, amounted to *88,23  As follows:	3,533 29
1904, inclusive, amounted to \$88,28  As follows:	
As follows:	
	18 31
Water	
Water meters	
Setting and repairing meters	
Labor and material, laying services, etc.,	
Rent of real estate	
Penalties 50 00	
Old rubber	
Permanently closing service stops	
Blue prints of water distribution	

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$92,495 75

# As follows:

As luliows.			
Water	\$84,336	72	
Water meters	3,580	00	
Labor and material, laying services, etc	2,153	95	
Setting and repairing meters	2,019	95	
Repairs on pipe line	173	42	•
Rent of real estate	96	75	
Penalties	50	00	
Old rubber	25	30	
Permanently closing service stops	15	00	
Blue prints of water distribution	4	00	
Freight on turbine generator from Boston	40	66	
· · · · · · · · · · · · · · · · · · ·		_	Q92.495.75

#### SEWERS.

During the quarter ending June 30, 1904, three hundred and sixty-four permits were issued to drain-layers — one hundred and ninety-one for new work and one hundred and seventy-three for extensions and repairs of drains.

Fifteen drain-layers' licenses were issued during the quarter, making the total number one hundred and forty-two, all of which expire December 31, 1904.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

Wallace street, from near Webster avenue to Priscilla	<b>\$</b> 990	43
Jewett street, from a point about 510 feet east of Valley to Valley.	1,628	65
North Main street, east side, from Stenton avenue to Third street.	1,631	64
Weymouth street and Lloyd avenue	3,837	27
Hilton street and California avenue	3,853	75
Tuxedo and Regent avenues	3,115	20
Wayland, Cole and University avenues	5,558	20
Branch avenue, from near Langdon street to near Moshassuck		
river	14,047	03
Branch avenue, from near Langdon street to Veazie	12,860	20
Algonquin street and Reservoir avenue	1,261	58
Amount carried forward	<b>\$48,78</b> 3	95

Amount brought forward	<b>\$48,783</b> %
Branch avenue, from Douglas to Veazie street	7,350 73
Silver Spring street and Northup avenue	6,318 48
India and South Main streets, Section 29	2,041 82
Cemetery street, from North Main to Frost	2,723 17
Atwells avenue, Pine and Broad streets	5,036 66
Charles street, from near Amboy to Branch avenue	7,703 43
Hamilton, Irving and Melrose streets	270 00
Longfellow street, Section 7	315 00

\$80,543 24

June 3d, the proposal of the Providence Coal Company to furnish and deliver at Ernest street station during June, 100 tons of New River or Pocahontas coal at \$3.35 per net ton, was accepted.

June 7th, the following proposals for furnishing the anthracite coal required to July 1, 1905, were accepted, viz.:

John R. White & Son, \$5.75 per net ton, for egg size, delivered at sewage precipitation tanks.

Eastern Coal Company, \$5.15 per net ton, for egg size, delivered at city vard.

June 30th, the proposal of the Eastern Coal Company to furnish and deliver at Ernest street station during July, 100 tons of New River coal at \$3.33 per net ton, was accepted.

June 21st, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials or rock excavation.]

To Frederick E. Shaw.

No. of resolution. Date of approval.

201. June 7, 1904, Barre street, from

Grove to about 1,300 feet northerly; also westerly through right of way across tracks of N. Y. N. H. and H. R. R. Co. to Harris avenue, . . .

**\$1,934** 70

No. of r	esolution	ı. Da	te of ap	proval.
202.	June	7,	1904,	Veazie street, from Doug-
				las avenue to Branch, . \$2,147 30
203.	46	44	46	Tanner, Laban and Con-
				anicut streets, 747 20
219.	June	17,	1904,	Exchange place, from
				Exchange street to the
				river, 2,548 60
	_		-	er, the construction of the following
			_	•
	resolutio		-	•
229.	June	<b>5,</b> 1	1903,	Reservoir avenue, west
				side, from Crescent street
				to Algonquin May 27, 1904.
230.	"	**	66	West Park and Bath
				streets May 6, 1904.
<b>52</b> .	Feb.	2,	1904,	Rosedale street, from
				Messer to Ellery, . June 7, 1904.
54.	46	66	44	Chalkstone avenue, from
				Lisbon street to River
			•	avenue, April 20, 1904.
55.	46	44	44	Algonquin street, from
				Crescent to Holmes May 28, 1904.
57.	66	66	"	Washington avenue, from
				Virginia to Eddy street, May 14, 1904.
59.	46	"	"	Fairview and Pemberton
- •				

Work upon the following sewers was in progress at the close of the quarter, namely:

streets, . . . Apr. 26, 1904.

No. of resolution. Date of approval.

<sup>320.</sup> Sept. 18, 1903, Vandewater street, from Douglas avenue to Branch.

No. of resolution.	Date of approval.
--------------------	-------------------

- 322. Sept. 18, 1903, Dudley street, from Pearl and Plain to the head of the city dock.
  - 58. Feb. 2, 1904, Thayer, Manning and Brook streets, (storm sewer).
  - 56. " " Ninth and Pettis streets.
  - 60. " " " Alverson, Eastwood, Laurel Hill and Hartford avenues.
- 203. June 7, 1904, Tanner, Laban, and Conanicut streets.

Work upon the following sewers, completing the work ordered by the city council, had not commenced June 30, 1904, namely:

No. of resolution. Date of approval.

- 319. Sept. 18, 1903, Elton street, from a low point 100 feet east of Taber avenue to Elmgrove.
  - 53. Feb. 2, 1904, Admiral street, from Hillwood to end of present sewer in Admiral.
- 201. June 7, 1904, Barre street, from Grove to about 1,300 feet northerly; also westerly through right of way across tracks of N. Y. N. H. and H. R. R. Co. te
- 202. " " Veazie street, from near Douglas avenue to Branch.

Harris avenue.

219. June 17, 1904, Exchange place, from Exchange streets to the river.

The amount of bills approved on account of sewers from April 1 to June 30, 1904, inclusive, was as follows:

# FOR CONSTRUCTION.

Regular appropriation	\$51,045	88	
Improved sewerage appropriation	295	05	
•		_	\$51,340

Charged as follows:			
Material	\$18,647	13	
Contract reservations	1,739	34	
Sundries	909	78	
Additional catch-basins	429	10	
Testing cement	267	82	
Tools	8	88	
Sewer in Algonquin street, from Crescent to Holmes	789	32	
Sewer in Alverson, Eastwood, Laurel Hill and			
Hartford avenues	1,864	63	
Sewer in Chalkstone avenue from Lisbon street to			
River avenue	814	41	
Sewer in Dudley street, from junction of Pearl and			
Plain to Eddy street, and across land of the			
city from Eddy street to the head of the city			
dock	12,886	98	
Sewer in Fairview and Pemberton streets	998	16	
Sewer in Ninth and Pettis streets	220	61	
Sewer in Reservoir avenue, west side, from Crescent			
street to Algonquin	859	57	
Sewer in Rosedale street, from Messer to Ellery	852	23	
Sewer in Tanner, Laban and Conanicut streets	28	55	
Sewer in Thayer, Manning and Brook streets	1,532	83	
Sewer in Vandewater street, from Douglas avenue			
to Branch	3,989	91	
Sewer in Washington avenue, from Virginia to			
Eddy street	1,377		
Sewer in West Park and Bath streets	3,103	96	
	\$51,340	93	
For maintenance,		<b>\$28,271</b>	23
Classified as follows:			
Cleaning basins and sewers	\$6,825	53	
Repairing basins and sewers	3,869		
Cleaning and repairing old drains	1,215		
Inspection of connections	-	08	
Tools		04	
Salary, superintendent		00	
Barn expenses		47	
Sundries		9 67	
Horses, wagons, harnesses, etc	129	89	
Filling cisterns, etc		89	
Cleaning private connections	4:	2 00	
Telephone lines	32	5-93	
Car fares		. 00	
	10	00	
Office expenses		32	
Office expenses	7		

	\$14,450	10	
ERNEST STREET STATION.			
Coal and wood	\$1,521	<b>52</b>	
Engineers	809	48	
Cleaning screens	629	98	
Firemen	420	40	
Cleaning and repairing pumps	391		
Care of grounds	123		
Supplies	73		
Repairs on engines	39		
Lights	25		
Care of buildings	19		
Repairs on buildings	2		
Repairs on boilers	2	66	
SEWAGE PRECIPITATION TANK	KS.		
Chemicals	4,695	05	
Labor in sludge disposal	2,543		
Labor on sewage precipitation	1,535		
Electrical power	469		
Miscellaneous supplies	402	19	
Fuel	57	94	
Repairs on machinery	26	01	
Lights	17	76	
	12	92	
Repairs on buildings			
Repairs on buildings	\$28,271	<u>2</u> 3	
The <i>net</i> expenditure for construction of sewer	s to Ju	ne 	\$7,567,541
The net expenditure for construction of sewer	s to Ju	ne 	
The <i>net</i> expenditure for construction of sewer 30, 1904, inclusive, was	rs to Ju	ne 	
The net expenditure for construction of sewer 30, 1904, inclusive, was  The net expenditure for maintenance of sewer 30, 1904, inclusive, was	rs to Ju	ne 	
The net expenditure for construction of sewer 30, 1904, inclusive, was  The net expenditure for maintenance of sewer 30, 1904, inclusive, was  Bills deposited with the city treasure for collection from April 1 to June 30	rs to Ju	ne 	\$1,095,816
The net expenditure for construction of sewer 30, 1904, inclusive, was  The net expenditure for maintenance of sewer 30, 1904, inclusive, was	rs to Ju	ne 	\$1,095,816
The net expenditure for construction of sewer 30, 1904, inclusive, was  The net expenditure for maintenance of sewer 30, 1904, inclusive, was  Bills deposited with the city treasure for collection from April 1 to June 30	rs to Ju	ne 	
The net expenditure for construction of sewer 30, 1904, inclusive, was	rs to Ju	ne 	\$1,095,816
The net expenditure for construction of sewer 30, 1904, inclusive, was  The net expenditure for maintenance of sewer 30, 1904, inclusive, was  Bills deposited with the city treasure for collection from April 1 to June 30 1904, inclusive, amounted to  As follows:  Sewer material	rs to Ju er 0,	ne ne 	\$1,095,816
The net expenditure for construction of sewer 30, 1904, inclusive, was  The net expenditure for maintenance of sewer 30, 1904, inclusive, was  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Sewer material  Filling cisterns, etc	er 0,	ne ne 33 60	\$1,095,816
The net expenditure for construction of sewer 30, 1904, inclusive, was  The net expenditure for maintenance of sewer 30, 1904, inclusive, was  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Sewer material  Filling cisterns, etc  Cleaning private connections	rs to Ju er 0,	ne ne 33 60 25	\$1,095,816
The net expenditure for construction of sewer 30, 1904, inclusive, was  The net expenditure for maintenance of sewer 30, 1904, inclusive, was  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Sewer material  Filling cisterns, etc	er 0, \$207 53 53	ne ne 33 60 25	\$1,095,816

#### As follows:

Sewer material	\$200	58
Filling cisterns, etc	99	60
Cleaning private connections		00
Old rubber		13
Miscellaneous work	16	69
Testing cement	2	40
-	<b>\$4</b> 30	40

#### HIGHWAYS.

Five permits to open streets were issued during the quarter.

A statement has been prepared of the cost of curbstones set, ascertained by the commissioner and certified to the board of aldermen for approval, as follows:

Morris avenue, from Cypress street to Olney...... \$2,099 21

May 21st, statements of the cost of concreting sidewalks in sundry streets, with ten per centum added to cover the cost of assessing and collecting, were certified to the assessors of taxes, aggregating the sum of \$1,780.95.

June 3d, the proposal of the Providence Coal Company to furnish the New River or Pocahontas coal required during June, 1904, was accepted at the following prices, viz.:

Lump	<b>\$</b> 3.60	per	net	ton,	at the	yard.
Run of mine	3.10	"	"	"	** * **	"

June 7th, the proposal of the Eastern Coal Company to furnish and deliver all the egg and stove size anthracite coal required to July 1, 1905, at \$5.15 per net ton, was accepted.

June 30th, the proposal of the Eastern Coal Company to furnish, at their yard, all the New River coal required during July, 1904, was accepted at the following prices, viz.:

During the quarter, the following work was completed:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

Nov. 20, 1902, Egan street, from Manton avenue to the bridge.

June 18, 1903, Wayland avenue, from Lloyd to Irving.

" " Cole avenue, from Lloyd to Irving.

Oct. 15, " Morris avenue, from Cypress street to Olney.

Dec. 17, "Hilton street, from Willard avenue to Bogman street.

April 21, 1904, Troy street, from Westminster to Oak.

"" Seventh street, from Summit avenue to North

Seventh street, from Summit avenue to North

Main street.

TO GRADE AND PUT IN GOOD CONDITION.

Date of order.

June 18, 1903, Hastings and Ledge streets.

The following work was in progress June 30, 1904, -namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

June 18, 1903, Bath street, from Orms to Calverley.

" " " University avenue, from Elmgrove to Slater.

April 21, 1904. Algonquin street, from Crescent to Reservoir avenue.

The following work, ordered by the board of aldermen and city council, had not commenced June 30, 1904, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Jan. 21, 1904, Elton street, from Taber avenue to Elmgrove.
May 19, 1904, Rosedale street, from Messer to Ellery.

- " " Thorne street, from Roanoke to Belmont avenue.
- " " Fairview street, from Carleton to Pemberton.
  June 16, 1904, Barre street, from Ridge to Bell.
- " " Bell street, from Barre to Eden.

ABOLISHMENT OF GRADE CROSSINGS.

Date of order.

June 7, 1904, Building retaining walls, etc., on Barre street.

Bills approved on account of highways from April 1 to June 30, 1904, inclusive, amounted to:

**\$77,910 99** 

# Classified as follows:

Cleaning streets	\$20,209	68
Repairs on unpaved streets	10,738	11
Crushed stone — material and labor	9,236	03
Repairs on paved streets	5,792	69
Stone — paving and crosswalk	5,318	08
Barn expenses	2,657	20
Blacksmith and wheelwright shop	2,624	19
Tools, implements, etc	1,205	62
Repairs on stone crushers	853	91
Horses, wagons, harnesses, etc	738	30
Watering streets	722	10
Labor on material	663	69
Steam rollers — repairs and supplies	533	40
Superintendent's salary	442	00
Building driveways, etc	411	24
Sundries	221	03
Watchman at city yard	156	00
Fencing streets — material and labor	81	88
Repairs on buildings, highway yard	42	60
Office expenses, city yard	25	80
Car fares	25	00
Telephone lines	5	35

Amount carried forward.....

\$62,703 90

Amount brought forward			\$62,703	<b>30</b>
NEW WORK — BUILDING AND R	EBUIL	D-		
ING STREETS, ETC.				
SIDEWALKS CURBED AND GUTTERS I	PAVEN			
Algonquin street, from Crescent to Reservoir avenue	\$394			
Bath street, from Orms to Calverley	1,325 1,270			
Hilton street, from Willard avenue to Bogman street	1,249			
Morris avenue, from Cypress street to Olney	1,918			
Seventh street, from Summit avenue to North Main	-,			
street	2,781	86		
Troy street, from Westminster to Oak	1,926	09		
University avenue, from Elmgrove to Slater	1,525	26		
Wayland avenue, from Lloyd to Irving	1,570	22		
. –		_	13,96	75
TO GRADE AND PUT IN GOOD COND	ITION.			
Hastings and Ledge streets			1,24	34
			\$77,91	99
•	m			
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for	m re		•	4.0
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have	m re		<b>\$</b> 76	19
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of	m ve or		<b>\$</b> 76	19
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of Bills deposited with the city treasure	m ve or		<b>\$</b> 76	19
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of .  Bills deposited with the city treasure for collection from April 1 to June 30	m ve or			
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of Bills deposited with the city treasure	m ve or	1	<b>≩</b> 76 83,352	
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of .  Bills deposited with the city treasure for collection from April 1 to June 30	m ve or	ł		
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of .  Bills deposited with the city treasure for collection from April 1 to June 30 1904, inclusive, amounted to  As follows:	m ve or er 0,			
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of .  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to	m ve or			
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Labor and material	m ve or er 0,	10		
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Labor and material	m ve or	10 31		
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Labor and material	er 0, . \$1,861 484 446 256	10 31 87 35		
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Labor and material  Blacksmith and harness work done for other departments  Building driveways, etc  Street sweepings  Boarding horses for other departments	er 0,	10 31 87 35 55		
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Labor and material  Blacksmith and harness work done for other departments  Building driveways, etc  Street sweepings  Boarding horses for other departments  Manure from barn	mre ore or or s1,861 484 446 236 202 69	10 31 87 35 55		
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Labor and material  Blacksmith and harness work done for other departments  Building driveways, etc  Street sweepings  Boarding horses for other departments  Manure from barn  Discharging cargoes at city wharf	S1,861  484 446 256 202 69 27	10 31 87 35 55 00 75		
retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of  Bills deposited with the city treasure for collection from April 1 to June 30, 1904, inclusive, amounted to  As follows:  Labor and material  Blacksmith and harness work done for other departments  Building driveways, etc  Street sweepings  Boarding horses for other departments  Manure from barn	mre ore or or s1,861 484 446 236 202 69	10 31 87 35 55 00 75		

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$2,383** 46

# As follows:

Labor and material	<b>\$</b> 934	68
Blacksmith and harness work done for other de-		
partments	529	96
Street sweepings	312	65
Building driveways, etc	282	47
Boarding horses for other departments	202	55
Manure from barn	69	00
Discharging cargoes at city wharf	47	25
Empty oil barrels	4	90
<del>-</del>		_

**\$2,383 46** 

### SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from April 1 to June 30, 1904, inclusive, amounted to . . .

**\$8,591** 52

# Charged as follows:

2,162	64
 1,182	11
 	—

\$8,591 52

Curbing bills deposited with the city treasurer for collection from April 1 to June 30, 1904, inclusive, amounted to

**\$13,139** 28

During the quarter, coupons from curbing bills have been returned by the city treasurer and receipted for to the amount of . . .

\$3,960 47

#### CITY ENGINEER.

Bills approved on account of the city engineer's department from April 1 to June 30, 1904, inclusive, amounted to .

**\$12,084** 61

# Charged as follows:

Salary — city engineer	\$1,125	00
Salaries of assistants	9,733	72
Salaries of clerks	789	75
Car fares	202	00
Supplies — drawing material, etc	196	69
Telephone lines	23	30
Carriage hire		00
Sundries		15
•	\$12,084	61

÷20 0

During the quarter, coupons from bills collected for one level and tripod sold, have been returned by the city treasurer and receipted for to the amount of . . . .

\$20 (

### BRIDGES.

June 3d, the proposal of the Providence Coal Company furnish and deliver all the New River or Pocahontas lucoal required during June, 1904, at \$4.00 per net ton, v accepted.

June 7th, the proposal of John R. White & Son to furnish and deliver all the egg size anthracite coal required to July 1, 1905, at \$5.75 per net ton, was accepted.

June 30th, the proposal of the Providence Coal Company to furnish and deliver all the New River or Pocahontas lump coal required during July, 1904, at \$4.05 per net ton, was accepted.

During the quarter the following work was completed, namely:

TO BUILD BRIDGE AND APPROACHES.

No. of resolution. Date of approval.

220. June 20, 1902, Over Woonasquatucket river at Egan and Chatlett streets.

The following work was in progress at the end of the quarter, namely:

No. of resolution. Date of approval.

411. Dec. 19, 1902, Exchange bridge on its northerly side;
bridge over the river between Exchange
and Burnside bridges; river walls between Burnside and Exchange bridges.

The following work, ordered by the city council, had not commenced June 30, 1904:

No. of resolution. Date of approval.

232. June 21, 1904, Build culvert, across Allens avenue at outlet to Buryess cove, and the approaches thereto.

# Charged as follows:

Acorn street bridge	\$1 U
Atwells avenue bridge	33 6
Barn expenses	108 27
Branch avenue bridge	16 0
Burnside bridge	5 30
Cemetery street bridge	24 83
Charles street railroad bridge	33 96
Crawford street bridge	55 63
Delaine street bridge	13 70
Exchange bridge	20 49
Francis street bridge	118 59
Gaspee street bridge	9 79
Geneva bridge	105 30
Horses, wagons, harnesses, etc	12 91
Lumber, hardware, etc	331 68
Manton avenue bridge	21 76
Merino bridge	160 87
Mill street bridge	19 62
Nash lane bridge	19 24
Park street bridge	6 44
Point street bridge	709 53
Promenade street bridge	25 04
Randall street bridge	18 44
Red bridge	264 35
Rent of keeper's house - Washington bridge	36 00
Salaries - Point street bridge	978 25
Salaries - Washington bridge	513 50
Salaries - Red bridge	514 57
Smith street bridge	10 24
Smithfield avenue bridge	7 90
Stevens street bridge	6 01
Sundries	155 15
Telephone lines	2 68
Tools	77 11
Valley street bridge - north span	83 84
Valley street bridge - south span	62 70
Veazie street bridge	46 10
Wanskuck bridge	11 42
Washington bridge	108 68
Washington row bridge	18 28
West river street bridge	41 45
Weybosset bridge	178 59
Whelden street bridge	4 28

84,993 19

Bills deposited with the city treasurer for collection from April 1 to June 30, 1904, inclusive, for old lumber sold, amounted to	<b>*2</b> 25
During the quarter, coupons from bills collected for old lumber sold, have been returned by the city treasurer and receipted for to the amount of	<b>\$</b> 2 <b>2</b> 5
Bills approved for account of building the Merino bridge, from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that	<b>\$</b> 5 990 00
work, to the amount of  Bills approved for account of building the river walls between the Burnside and Exchange bridges, from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that	<b>\$</b> 5,330 29
work, to the amount of	<b>\$14,101</b> 56

# PUBLIC LIGHTS.

Bills approved on account of the public lights from April 1 to June 30, 1904, inclusive, amounted to . . . . . \$69,756 87

Charged as follows:

Arc lights	\$31,077	06
Incandescent lights	12,097	83
Welsbach lights	6,120	80
Salaries	395	00
Gas for street lights	50	80
Horses, wagons, harnesses, etc	12	38
Setting and removing gas posts	3	00
•	\$69,756	87

Bills deposited with the city treasurer for collection from April 1 to June 30, 1904 inclusive, amounted to		<b>\$</b> 17	00
As follows:			
Lamp posts, lanterns and frames	\$15 00 2 00		
	\$17 00		
During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of	7	<b>&amp;</b> 22	00
As follows:			
Lamp posts, lanterns and frames	\$20 00 2 00		
	\$22.00		

# PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from April 1 to June 30, 1904, inclusive, amounted to . . . \$5,077 53

# Charged as follows:

Salaries of commissioner and secretary	₹1,850	00
Salaries of office assistants	3,033	66
Office supplies	157	90
Telephone lines	35	97

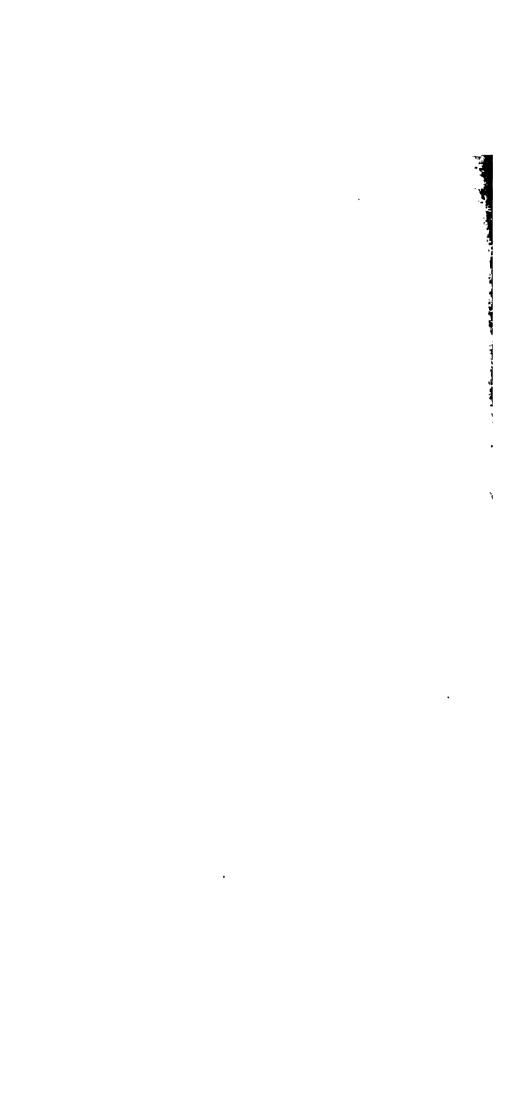
# CONTINGENCIES.

Bills approved for the inspection of electric wires from April 1 to June 30, 1904, inclusive, have been paid from the appropriation for contingencies to the amount of . . . .

**\$**5 00

WALTER F. SLADE,

Commissioner.



- "

DOLL CITY DOCUMEN

157649

EIGHTY-SEVENTH QUARTERLY REPORT

100 THE

# Department of Public Works

OF THE

CITY OF PROVIDENCE, R. L.

QUARTER ENDING SEPTEMBER 30, 1004,



Cre Dravidens Dress.

Lyon & LARNIAN, Cryy Parsyers.

Walleylin-Street,

11124



# EIGHTY-SEVENTH QUARTERLY REPORT

OF THE

# Department of Public Works

CITY OF PROVIDENCE, R. I.

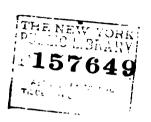
QUARTER ENDING SEPTEMBER 30, 1904.



The Providence Press:

Snow & FARNHAM, CITY PRINTERS,

63 Washington Street,



# REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., October 1, 1904.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-seventh quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending September 30, 1904.

#### WATER WORKS.

July 18th, the proposal of Fuller Iron Works to furnish and deliver at Pettaconset grate bars and cast iron pipe for the filtration plant for the sum of \$564.25, was accepted.

July 26th, the proposal of the Eastern Coal Company to furnish and deliver at Pettaconset all the New River coal required to July 1, 1905, at \$3.80 per net ton, was accepted.

August 9th, the proposal of Thomas P. Hogan & Company to remove the old building from the Randall estate at Pawtuxet for the material, and also to pay the city the sum of \$10.00, was accepted.

The average daily consumption of water during the last quarter was 13,746,585 gallons.

# Water pipes were laid during the quarter as follows:

# 12-inch. In Dorrance and Westminster streets..... 735.08 feet. 8-INCH. In Dorrance and Smith streets..... 13.63 feet. 6-INCH. In Ashton, Clarence, Conanicut, Elton, Fisher, Gay, Helen, Murray, Payton, Pratt, Seamans, Stanwood and Smith streets; California, Everett, Indiana and Silver Lake avenues; in Berwick Lane, Cato, Clarence, George, Governor and Heather streets; Fletcher, Puritan and Poland avenues in the town of Cranston; in Calef street and Fletcher avenue in the town of Johnston, and in Allendale avenue in the town of North Providence..... 6,711.48 feet. Total ..... or 1.271 + miles.

Water pipes were abandoned or removed during the quarter as follows:

Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch																					10.084.00 feet.
																					,
30-inch			 		٠.	 ٠.	•			٠.	 	٠.	• •	٠.	•	 •	٠.	٠.	• •	 • •	61,328.30 feet.
24-inch			 			 					 							٠.		 	43,758.29 feet.
20-inch		 	 	 							 	٠.				 				 	9,626.59 feet
16-inch		 	 			 					 									 	33,812,95 feet.
12-inch		 	 			 					 	٠.		٠.						 	105,726.32 feet.
10-inch			 	 		 										 				 	15,057.14 feet.
8-inch		 	 			 					 	٠.								 	292,709.05 feet.
6-inch		 	 	 	٠.	 					 	٠.	٠.	٠.						 	1,243,271.69 feet.
Total	. 1																			-	1.815.374.33 feet.

or, 343.820 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total	29,408.71 feet.

or, 5.569 + miles.

Six fire hydrants have been set during the quarter, one in each of the following locations:

Elton street, north side, 199.5 feet east of east building line of Taber avenue.

Helen street, south side, 522.5 feet east of east building line of Eddy street.

North Main street, east side, 8 feet south of south building line of Wood-bine street.

Pleasant street, north side, on west building line of Western street. Smith street, south side, on range of west line of Elmhurst street.

Tecumseh street, east side, 3 feet north of north building line of Abbott street.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and seventeen — nineteen hundred and fourteen flush, and one hundred and three post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and eighty-three water meters were set, of which number fifty-seven were to replace other meters. The use of eight meters was discontinued.

The following meters were in use at the close of the quarster:

	SIZE.										
KIND.	₫-in.	₫-in.	1-in.	1½-in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total.	
Ball & Fitts	2,025	419	99	11	5					2,588	
Ball & Fitts, rotary			4	7		2	1			14	
Crown	9,487	1,121	331	143	42	25	25	1		11,175	
Empire	1,062	147	63	45	14	1	1			1,333	
Fales, Jenks & Sons			1				our.		min	1	
Gem		*****			13	29	16	3		a	
Thomson	4,456	424	75	53	22	7	7	2	,	5,046	
Trident	102		1							103	
Venturi	,						*****		1	1	
Worthington	1		*****		1					2	
	17,133	2,111	574	259	97	64	50	6		20,290	

Two plumbers' licenses were issued during the quarter, making the total number one hundred and twenty-eight, all of which expire December 31, 1904.

Six hundred and ninety-two permits to do plumbing work were issued during the quarter.

One hundred and fifty-five applications for water were made during the quarter, making the total number twenty-six thousand five hundred and thirty-six.

The number of new service stops opened during the quarter was one hundred and ninety-three.

The total number of service stops opened to September 30, 1904, inclusive, was twenty-five thousand eight hundred fifty-nine. The number in actual use September 30, 1904, was twenty-three thousand eight hundred and sixty-nine.

The amount of bills approved on account from July 1, to September 30, 1904, including			rks
For maintenance,	•	<b>\$</b> 38,538	64
Classified as follows:			
PETTACONSET PUMPING STATIC	n.		
New chimney, to furnish and erect	\$5,000		
Coal and wood	4,584		
Sundries	916		
Engineers	760		
FiremenSuperintendence	623 398		
Oil, waste and packing	130		
Care of grounds	124		
Labor on fuel	120		
Repairs on boilers		65	
Worthington high-duty engine		21	
Corliss pumping engine and house		54	
Allis Chalmers high-duty engine, to furnish and	-		
erect	55	55	
Cornish engine house	49	40	
Barn expenses	49	11	
Lights	3	44	
Cornish pumping engine	3	00	7 70
_		<b> \$</b> 13,04	1 10
Sockanosset Reservoir.			
Sundries	<b>\$</b> 198		
Watchman	194		2 86
<del>-</del>		39.	2 00
HOPE PUMPING STATION.			
Coal and wood	\$1,392	52	
Firemen	480	35	
Engineers	336	98	
Sundries	51	43	
Lights	39	90	
Repairs on boilers	4	71	
Holly pumping engine	3	25	0.14
Horn Drannway		2,30	9 14
Hope Reservoir.			
Sundries	<b>\$242</b>		
Watchman			0 40
Amount carried forward		\$16,21	0 10

		\$16,216
FRUIT HILL RESERVOIR.	•	
Sundries	\$694	18
Watchman	218	25
<del>-</del>		- 911
METER DEPARTMENT.		
Water meters	\$3,431	13
Setting and repairing meters	2,050 6	
-		- 5,482
PIPE LINE AND SERVICE STOI	P8.	
Repairs	\$4,165 4	13
Superintendence — salaries	904 4	12
Inspection of pipe line and services	896 3	
_		— 5 <b>,96</b> 6
PIPE YARD.		
Laying water pipe	\$3,548 1	17
Laying service pipe	1,447 8	
Service pipe	521 9	
Special castings	455 3	
Pig lead and tin	274 5	_
Labor on and carting pipe	177 3	-
Tools	133 8	-
Pipe yard, office expenses	37 3 18 4	_
Repairs on pipe yard buildings	13 5	
Taps and stops		)1 '5
-	•	- 6, <b>62</b> 8
Miscellaneous.		
Clerks' and inspectors' salaries	\$1,646 2	21
Barn expenses	679 2	
Prevention of defilement of the Pawtuxet	549 9	=
Horses, wagons, harnesses, etc	194 5	
Telephone lines	122 6	
Car fares	100 0	
Real estate in Lincoln	27 5	
Real estate at Pawtuxet	12 0	
Sundries Public drinking fountains and troughs	3 5 3 1	-
I done drinking fountains and doughs		o 3,33
<del>-</del>		

nstallation of sand filtration plant at Pettaconset.	<b>\$</b> 10,813 <b>4</b> 1	
The total expenditures to September 3	0,	
1904, inclusive, was	. \$9,7	60,564 71
The net expenditure for maintenance from September 30, 1904, inclusive, was		<b>\$</b> 29,302 59
The net expenditure for maintenance to September		<b>9</b> 0 100 051 05
inclusive, was		\$2,100,361 37
September 30, 1904, inclusive, was	•••••	\$133,478 96
The value of the water works system	n,	
January 1, 1904, as estimated by the ci		
engineer, was as follows:	J	
Pettaconset pumping station	126,530 12 706,531 26	
Real estate in Pawtuxet and Lincoln	15,975 00	
Tools and supplies	44,939 96	<b>\$</b> 3,938,533 29
Bills deposited with the city treasur		
Bills deposited with the city treasur for collection from July 1 to September 3		
•	0,	k84,038 99
for collection from July 1 to September 3	0,	<b>84,038</b> 99
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Water	0,	·
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Water	0, 	,
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Water Water meters. Setting and repairing meters.	0, 	,
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Water	0,	
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Water	0,	
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Water Water meters Setting and repairing meters Labor and material, laying services, etc., Rent of real estate Repairs on pipe line	0,	
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Water Water meters Setting and repairing meters Labor and material, laying services, etc., Rent of real estate Repairs on pipe line Penalties.	874,971 20 3,931 75 3,169 21 1,658 03 100 50 97 30	
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Water Water meters Setting and repairing meters Labor and material, laying services, etc., Rent of real estate Repairs on pipe line	874,971 20 3,931 75 3,169 21 1,638 03 100 50 97 30 74 00	

During	the	quarte	r, coupon	8 fi	$\mathbf{mo}$	bills
collected	have	been	returned	by	the	city
treasurer	and r	eceipte	d for to th	ie ai	nou	nt of

**\$83,451** :

### As follows:

Water	\$74,141	13	
Water meters	3,881	75	
Setting and repairing meters	3,501	72	
Labor and material, laying services, etc	1,621	90	
Repairs on pipe line	115	68	
Rent of real estate	88	00	
Penalties	74	00	
Permanently closing service stops	25	00	
Blue prints of water distribution	2	00	
		_	\$83,451 1

The amount of bills approved on account of water works for the fiscal year ending September 30, 1904, inclusive, was:

For maintenance, . . . . . \$172,312 0

# Classified as follows:

PETTACONSET PUMPING STATI	ON.		
Coal and wood	\$20,871	82	
New chimney, to furnish and erect	5,000	00	
Sundries	3,103	64	
Engineers	2,778	06	
Firemen	2,328	40	
Superintendence	1,503	21	
Labor on fuel	549	28	
Care of grounds	512	16	
Barn expenses	459	49	
Oil, waste and packing	393	68	
Repairs on boilers	387	71	
Worthington high-duty engine	248	59	
Allis Chalmers high-duty engine, to furnish and			
erect	205	55	
Real estate.	152	88	
Corliss pumping engine and house	113	33	
Cornish engine house	80	49	
Lights	32	78	
Cornish pumping engine	3	00	
<u>-</u>		_	\$38,724
Amount carried forward			\$38,724

		••••	\$38,724
Sockanosset Reservoir.			
Vatchman	<b>\$</b> 732	00	
undries	511	25	
-		_	1,243
Hope Pumping Station.			
coal and wood	\$2,739	05	
'iremen	1,793	22	
Ingineers	1,220	84	•
Repairs on boilers	492	79	
Sundries	275	07	
Lights	241	24	
Oil, waste and packing	43	44	
Holly pumping engine	7	68	
-		-	6,863
Hope Reservoir.			
Watchman	\$823	50	
Sundries	750	39	
-		-	1,573
FRUIT HILL RESERVOIR.			
Sundries	\$2,598	89	
Watchman	823		
-		_	3,422
METER DEPARTMENT.			
Water meters	\$12,259	38	
Setting and repairing meters	6,808		
			19,067
			,
PIPE LINE AND SERVICE STOR	P8.		
Repairs	\$16,221	13	
Superintendence — salaries	3,413	14	
Inspection of pipe line and services	2,987	11	
-		-	22,621
PIPE YARD.			
Laying water pipe	\$16,228	32	
	11,629		
Cast iron water pipe	-		
Cast iron water pipe	6,024	oz	
Cast iron water pipe	•		
Cast iron water pipe	6,024 4,627 3,393	42	

Amounts brought forward	\$44,902	95	\$93,515 79
Fire hydrants, boxes and covers	3,227	70	
Service pipe	1,632	72	
Taps and stops	1,297	76	
Pig lead and tin	1,026	63	
Tools	933	40	
Labor on and carting pipe	610	11	
Pipe yard, office expenses	182	57	
Repairs on pipe yard buildings	23	58	
-		_	53,837 42
MISCELLANEOUS.			
Town of Cranston, tax	\$7,077	69	
Clerks' and inspectors' salaries	6,211	52	
Thawing out water pipe	4,218	62	
Barn expenses	2,523	98	
Prevention of defilement of the Pawtuxet	2,199	96	
Horses, wagons, harness, etc	993	05	
Telephone lines	506	22	
Town of North Providence, tax	400	00	
Car fares	315	00	
Inspection of water pipe with reference to electro-			
lysis	182	13	
Sundries	147	74	
Real estate at Pawtuxet	79	50	
Transferring water service records to card system.	41	05	
Public drinking fountains and troughs	34	83	
Real estate in Lincoln	27	50	
		_	24,958 7
•			

Charged as follows:

For construction,

Installation of sand filtration plant at Pettaconset, \$72,675 10

# SEWERS.

. . . . \$72,675 10

During the quarter ending September 30, 1904, three hurdred and thirty-seven permits were issued to drain-layers—two hundred and one for new work and one hundred an thirty-six for extensions and repairs of drains.

Four drain-layers' licenses were issued during the quarter, making the total number one hundred and forty-six, all of which expire December 31, 1904.

July 26th, the proposal of the Eastern Coal Company to furnish and deliver all the New River coal required at the Ernest street station to July 1, 1905, for the sum of \$3.55 per net ton, and to furnish all New River coal required by other branches of the sewer department for the same period, for the sum of \$3.15 per net ton for run of mine, and \$3.65 per net ton for lump, at their yard, was accepted.

July 29th, an assessment for the cost of constructing a sewer in Hamilton, Irving and Melrose streets was certified to the city treasurer amounting to \$50.00.

August 2d, the proposal of James C. Goff to furnish and deliver at the city yard, one cargo of Sanford bricks at \$8.50 per thousand was accepted.

September 9th, the proposal of J. Spencer Turner Company to furnish and deliver 10,000 yards of filter cloth at  $20\frac{1}{2}$  cents per yard, was accepted.

September 22d, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials or rock excavation.]

#### To CHARLES CRANKSHAW.

No. of resolution. Date of approval.

302. Sept. 13, 1904, Nebraska street, from

near Rugby to Eddy, \$338 30

300. " " Everett avenue, from

Arlington to Elmgrove, 1,044 60

**\$2,561 50** 

. Sept. 13, 1904.

#### TIMOTHY F. LYONS.

No. of resolution. Date of approval.

801. Sept. 13, 1904, Eighth street, from near Summit avenue to North

Main street, . . . .

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution. Date of approval. Date of completion. Sept. 18, 1903, Elton street, from point 100 feet east of Taber avenue to Elmgrove, . July 25, 1904. . . 320. Vandewater street, from Douglas avenue to . . Aug. 6, 1904. Branch, 322. Dudley street, from Pearl and Plain to the head of . Aug. 4, 1904. the city dock, . Feb. 2, 1904, Ninth and Pettis streets, Aug. 24, 1904. 56. 203. June 7, 1904, Tanner, Laban, and

Work upon the following sewers was in progress at the close of the quarter, namely:

Conanicut streets,

No. of resolution. Date of approval.

58. Feb. 2, 1904, Thayer, Manning and Brook streets, (storm sewer).

- 60. " " Alverson, Eastwood, Laurel Hill and Hartford avenues.
- 201. June 7, 1904, Barre street, from Grove to about 1,300 feet northerly; also westerly through right of way across tracks of N. Y., N. H. and H. R. R. Company to Harris avenue.

202. June 7, 1904, Veazie street, from Douglas avenue to

219. June 17, 1904, Exchange place, from Exchange street

Branch.

No. of resolution. Date of approval.

to the river.	v
302. Sept. 13, 1904, Nebraska street, fr Eddy.	rom near Rugby to
Work upon the following sewers, co ordered by the city council, had not con 30, 1904, namely:	- 0
No. of resolution. Date of approval.	
53. Feb. 2, 1904, Admiral street, from of present sewer in	
300. Sept. 13, 1904, Everett avenue, from grove.	
301. " " Eighth street, from of Summit avenue to	<b>4</b> • • •
The amount of bills approved on accou	int of sewers from
July 1 to September 30, 1904, inclusive,	
July 1 to September 30, 1304, inclusive,	was as lollows:
For Construction.	
Regular appropriation	
Charged as follows:	
Material	<b>\$</b> 3,337 <b>4</b> 5
Contract reservations	1,319 00
Additional catch-basins	1,184 67
Sundries	875 12
Testing cement	279 50
Tools	4 00
Sewer in Algonquin street, from Crescent to Holmes Sewer in Alverson, Eastwood, Laurel Hill and	5 25
Hartford avenues	2,154 34
Sewer in Barre street, from Grove to about 1,300	-, 01
feet northerly; also westerly through right of	
way across tracks of N. Y., N. H. and H. R. R.	
Company to Harris avenue	1,961 56
Amount carried forward	<b>\$</b> 11,120 89

Amount brought forward	\$11,120	89	
Sewer in Chalkstone avenue from Lisbon street to			
River avenue	5	25	
Sewer in Dudley street, from junction of Pearl and			
Plain to Eddy street, and across land of the			
city from Eddy street to the head of the city			
dock	4,323	50	
Sewer in Elton street, from a low point 100 feet			
east of Taber avenue to Elmgrove	639	70	
Sewer in Exchange place, from Exchange street to			
the river	1,346		
Sewer in Fairview and Pemberton streets	84		
Sewer in Nebraska street, from Rugby to Eddy		47	
Sewer in Ninth and Pettis streets	1,311	10	
Sewer in Reservoir avenue, west side, from Crescent	_	~~	
street to Algonquin		50	
Sewer in Rosedale street, from Messer to Ellery Sewer in Tanner, Laban and Conanicut streets		35	
Sewer in Thayer, Manning and Brook streets	1,077		
Sewer in Vandewater street, from Douglas avenue	7,504	40	
to Branch	2,409	1.4	
Sewer in Veazie street, from near Douglas avenue	2,100	**	
to Branch	336	48	
Sewer in Washington avenue, from Virginia to			
Eddy street	7	50	
Sewer in West Park and Bath streets	15	00	
Sewer in Seekonk Division, Section 30	18	00	
	\$30,217	55	
For maintenance,	•	<b>\$</b> 31,967	00
Classified as follows:			
Cleaning basins and sewers	<b>\$</b> 7,823	56	
Repairing basins and sewers	4,109		
Cleaning and repairing old drains			
	1,155		
Inspection of connections	1,155 728		
	•	36	
Inspection of connections	728	36 26	
Inspection of connections	728 691	36 26 14	
Inspection of connections Sundries	728 691 575	36 26 14 14	
Inspection of connections Sundries. Tools. Salary, superintendent. Barn expenses. Horses, wagons, harnesses, etc.	728 691 575 471 453 204	36 26 14 14 91	
Inspection of connections Sundries. Tools. Salary, superintendent. Barn expenses. Horses, wagons, harnesses, etc. Cleaning private connections.	728 691 575 471 453 204 61	36 26 14 14 91 08 60	
Inspection of connections Sundries Tools Salary, superintendent Barn expenses. Horses, wagons, harnesses, etc. Cleaning private connections Telephone lines	728 691 575 471 453 204 61	36 26 14 14 91 08 60 93	
Inspection of connections Sundries Tools. Salary, superintendent Barn expenses Horses, wagons, harnesses, etc Cleaning private connections. Telephone lines. Office expenses	728 691 575 471 453 204 61 35	36 26 14 14 91 08 60 93 45	
Inspection of connections Sundries. Tools. Salary, superintendent. Barn expenses. Horses, wagons, harnesses, etc. Cleaning private connections Telephone lines. Office expenses. Repairs on gate house.	728 691 575 471 453 204 61 35 17	36 26 14 14 91 08 60 93 45	
Inspection of connections Sundries. Tools. Salary, superintendent. Barn expenses. Horses, wagons, harnesses, etc. Cleaning private connections. Telephone lines. Office expenses. Repairs on gate house. Car fares.	728 691 575 471 453 204 61 35 17	36 26 14 14 91 08 60 93 45 14	
Inspection of connections Sundries. Tools. Salary, superintendent. Barn expenses. Horses, wagons, harnesses, etc. Cleaning private connections Telephone lines. Office expenses. Repairs on gate house.	728 691 575 471 453 204 61 35 17	36 26 14 14 91 08 60 93 45	

Amount brought forward	\$16,349	43	}	
ERNEST STREET STATION.				
Coal and wood	\$992	15	<b>;</b>	
Repairs on engines	969	97	•	
Engineers	877			
Cleaning screens	707			
Firemen	431			
Cleaning and repairing pumps	402			
Care of grounds	132			
Supplies	112			
Repairs on buildings		82		
Lights		01		
Care of buildings		31		
Repairs on boilers	1	83	1	
SEWAGE PRECIPITATION TANK	cs.			
Chemicals	5,939	13		
Labor in sludge disposal	2,643			
Labor on sewage precipitation	1,723			
Electrical power				
Fuel	310	29		
Miscellaneous supplies	176	92		
Repairs on machinery	166	85		
Lights	17	16		
Care of grounds	4	20		
	\$31,967	00		
The net expenditure for construction of sewers	to Septe	m-		
ber 30, 1904, inclusive, was				075 1
The net expenditure for maintenance of sewers to	to Septe	m-		
ber 30, 1904, inclusive, was			\$1,127,	275 8
Bills deposited with the city treasure				
for collection from July 1 to September 30	,			
1904, inclusive, amounted to	•		<b>\$</b> 1,29	5 2
As follows:				
Miscellaneous work	\$379	5R		
	•	25		
Cleaning private connections		45		
Pumping out cellars, etc		80		
Pumping out cellars, etc	683			
Cleaning private connections	683 75	03		
Pumping out cellars, etc	683 75	03 15		

55 08

1,961 56

3,243 13

During the quarter, coupons from bi	lls		
collected have been returned by the ci			
•	•		
treasurer and receipted for to the amou	nt		
of	•	•	<b>B1,191</b>
As follows:			
Miscellaneous work	\$391	35	
Cleaning private connections	55	25	
Pumping out cellars	20	59	
Sewer material	683		
Laying drains to curbstone	40	15	
•	\$1,191	14	
The amount of bills approved on account			
fiscal year ending September 30, 1904, in lows:	iclusiv	e, v	was as 1
For Construction.			
Regular appropriation	<b>8</b> 126,491	09	
Improved sewerage appropriation	32,563		
		_	\$159,054
Charged as follows:			w =
			•===
Material	<b>\$32.189</b>	33	•=,
	\$32,189 13.893		•=,
Contract reservations	13,893	43	•=•
Contract reservations		43 35	•=•
Contract reservations	13,893 3,076	43 35 30	
Contract reservations	13,893 3,076 2,233 954	43 35 30	
Contract reservations	13,893 3,076 2,233 954	43 35 30 37 45	
Material	13,893 3,076 2,233 954 32	43 35 30 37 45	
Contract reservations	13,893 3,076 2,233 954 32 794 4,018	43 35 30 37 45 57	
Contract reservations	13,893 3,076 2,233 954 32 794	43 35 30 37 45 57	
Contract reservations	13,893 3,076 2,233 954 32 794 4,018 4,789	43 35 30 37 45 57	

feet northerly, also westerly through right of way across tracks of N. Y., N. H. and H. R. R.

street.....

Amount carried forward...... \$67,241 99

A 11 114 1	<b>*</b> 07 041 (	
Amount brought forward	\$67,241	59
ewer in Branch avenue, from near Langdon street		
to near the Moshassuck river	3,559	14
ewer in Chalkstone avenue, from Lisbon street to		
River avenue	819	66
ewer in Charles street, from near Amboy to Brancl		
avenue	12	00
ewer in Dudley street, from junction of Pearl and		
Plain to Eddy, and across land of the city from		
Eddy street to the head of the city dock	21,972	40
ewer in Elton street, from a low point 100 feet		
east of Taber avenue to Elmgrove	639	70
ewer in Exchange place, from Exchange street to	)	
the river	1,346	
ewer in Fairview and Pemberton streets	1,136	<b>6</b> 9
lewer in Hilton street, from Bogman to Willard		
avenue, and in California avenue, from Vir-		
ginia to Eddy street	1,997	16
lewer in Merino avenue, from Manton to near	•	
Merino bridge	5,359	
sewer in Nebraska street, from Rugby to Eddy	5	
ewer in Ninth and Pettis streets	1,531	71
ewer in North Main street, east side, from Sten-		
ton avenue to Third street	3,616	63
ewer in Reservoir avenue, west side, from Cres-	•	
cent street to Algonquin	867	07
lewer in Rosedale street, from Messer to Ellery	857	58
sewer in Silver Spring street and Northup avenue.		10
sewer in Tanner, Laban and Conanicut streets	1,106	29
lewer in Thayer, Manning and Brook streets	9,057	31
sewer in Vandewater street, from Douglas avenue		
to Branch	6,399	30
Sewer in Veazie street, from near Douglas avenue	1	
to Branch	336	48
Sewer in Washington avenue, from Virginia to	1	
Eddy street	1,385	22
Sewer in Wayland, Cole and University avenues	3,714	58
Sewer in West Park and Bath streets	3,562	1;
sewer in Weymouth street and Lloyd avenue		51
lewer in Branch avenue, from Veazie street to the		
river near Vandewater street		50
sewer in Moshassuck Division, Section 27		36
Sewer in Moshassuck Division, Section 28		79
lewer in Seekonk Division, Section 29	3	2
sewer in Seekonk Division, Section 30	15,959	O

\$159,054 92

For Maintenance,		<b>\$</b> 118,718	31
Classified as follows:			
Cleaning basins and sewers	\$27,098	25	
Repairing basins and sewers	14,413		
Cleaning and repairing old drains	4,091	50	
Inspection of connections	2,702	06	
Tools	2,649	30	
Barn expenses	1,896	20	
Salary, superintendent	1,777	71	
Sundries	1,529	37	
Horses, wagons, harnesses, etc	1,034		
Use of water	900		
Cleaning private connections	197		
Office expenses	192		
Telephone lines	137		
Filling cisterns, etc		72	
Car fares.		00	
Repairs on buildings, sewer maintenance yard		45	
Repairs on gate house	24	96	
ERNEST STREET STATION.			
Coal and wood	5,357	19	
Engineers	8,275	98	
Cleaning screens	2,553	39	
Firemen	1,709	37	
Cleaning and repairing pumps	1,543	95	
Repairs on engines	1,051	80	
Supplies	480		
Care of grounds	370		
Lights	120		
Repairs on boilers		26	
Care of buildings		64	
Repairs on buildings	41	12	
SEWAGE PRECIPITATION TANK	<b>C8.</b>		
Chemicals	21,335	14	
Labor in sludge disposal	9,922		
Labor on sewage precipitation	6,252		
Miscellaneous supplies	2,151	46	
Electrical power	1,912	00	
Fuel	910	71	
Repairs on machinery		66	
Lights		20	
Repairs on buildings		60	
Repairs on sewage precipitation tanks		03	
Care of grounds	4	20	

#### HIGHWAYS.

Four permits to open streets were issued during the quarter.

July 26th, the proposal of the Eastern Coal Company to furnish at their yard all the New River or Pocahontas coal required to July 1st, 1905, was accepted at the following prices: New River—run of mine \$3.15, lump \$3.65; Pocahontas—run of mine \$3.30, lump \$3.80, per net ton.

July 28th, the proposal of Frank A. Gammino to furnish and deliver material in Adelaide avenue, west of the railroad bridge, for the sum of 44 cents per cubic yard, was accepted.

August 4th, the proposal of the Connecticut Trap Rock Quarries to furnish and deliver in the city yard 2,000 tons of trap rock at \$1.20 per ton, was accepted and the order subsequently increased to 4,000 tons.

August 5th, a schedule of curbing bills remaining unpaid was certified to the assessors of taxes for collection.

During the quarter, the following work was completed:

SIDEWALKS CURBED AND GUTTERS PAVED.

#### Date of order.

- June 18, 1903, Bath street, from Orms to Calverley.
  - " " University avenue, from Elmgrove to Slater.
- San. 21, 1904, Elton street, from Taber avenue to Elmgrove.
- April " " Algonquin street, from Crescent to Reservoir avenue.
- A ay 19, "Rosedale street, from Messer to Ellery.
  - " " Thorne street, from Roanoke to Belmont avenue.
  - " " Fairview street, from Carleton to Pemberton.

The following work, ordered by the board of aldermen and city council, had not commenced September 30, 1904, namely:

namely:		
SIDEWALKS CURBED AND GUTTI	ers P	AVED.
Date of order.		
June 16, 1904, Barre street, from Ridge	to Be	И.
" " Bell street, from Barre to		
• •		
Sept. 15, "Nebraska street, from Ed	ldy to	Rugby.
Bills approved on account of highwa	ys	
from July 1 to September 30, 1904, incl	lu-	
sive, amount to		<b>\$112,1</b> 98 95
Classified as follows:		
Repairs on unpaved streets	\$30,597	25
Cleaning streets	20,686	
Crushed stone — material and labor	17,633	59
Stone — paving and crosswalk	8,360	63
Repairs on paved streets	8,275	
Blacksmith and wheelwright shop	2,895	
Barn expenses	2,830	
Tools, implements, etc	1,528 1,341	
Watering streets	1,279	
Steam rollers — repairs and supplies	737	
Repairs on stone crushers	602	
Superintendent's salary	471	14
Building driveways, etc	419	94
Horses, wagons, harnesses, etc	191	15
Watchman at city yard	166	
Sundries	150	
Office expenses, city yard		16
Car fares		00
Telephone lines		35 00
Fencing streets — material and labor	•	70
- material and land		\$98,261 <sup>3</sup>
NEW WORK - BUILDING AND	REBU	ILD-
ING STREETS, ETC.		
SIDEWALKS CURBED AND GUTTERS	Paved.	
Algonquin street, from Crescent to Reservoir avenue	<b>\$</b> 3,633	79
Bath street, from Orms to Calvery	2,984	39
Elton street, from Taber avenue to Elmgrove	1,234	35

Algonquin street, from Crescent to Reservoir avenue	<b>\$</b> 3,653 79	
Bath street, from Orms to Calvery	2,984 39	
Elton street, from Taber avenue to Elmgrove	1,234 35	
Amounts carried forward	\$7,872 53	<b>\$98,26■</b>

Amounts brought forward	<b>\$</b> 7,872	53	\$98,26	1 18
Fairview street, from Carleton to Pemberton	1,454	92		
Rosedale street, from Messer to Ellery	1,615	57		
street	568	31		
Thorne street, from Roanoke to Belmont avenue	605	24		
Troy street, from Westminster to Oak	153	76		
University avenue, from Elmgrove to Slater	1,667	44		
<del>-</del>			13,93	7 77
			\$112,19	8 95
Bills deposited with the city treasure for collection from July 1 to September 3				
- · · · · · · · · · · · · · · · · · · ·	0,		<b>\$</b> 4,026	95
for collection from July 1 to September 3 1904, inclusive, amounted to	0,	. 92		95
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:	0,			95
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Labor and material	0, \$3,066	51		95
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:	0, \$3,066 354	51 22		95
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Labor and material	0, • \$3,066 354 216 167	51 22 50		95
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Labor and material	0, \$3,066 354 216 167 87	51 22 50 90		95
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Labor and material	0, • \$3,066 354 216 167 87 69	51 22 50 90 00		95
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Labor and material.  Building driveways, etc.  Boarding horses for other departments.  Street sweepings.  Blacksmith and harness work for other departments.  Manure from barn.  Use of steam rollers.	0, • \$3,066 354 216 167 87 69 60	51 22 50 90 00		95
for collection from July 1 to September 3 1904, inclusive, amounted to  As follows:  Labor and material	0, • \$3,066 354 216 167 87 69 60	51 22 50 90 00		95

During the quarter, coupons from bills collected have been returned by the city reasurer and receipted for to the amount of \$3,984 28

#### As follows:

Labor and material	\$2,694	74
Blacksmith and harness work for other depart-		
ments	471	59
Building driveways, etc	410	33
Boarding horses for other departments	216	22
Street sweepings	117	50
Manure from barn	69	00
Empty oil barrels	4	90
_	<b>\$</b> 3,98 <b>4</b>	28

В	ills	approv	ved o	n accou	nt of	highw	rays
for	the	fiscal	year	ending	Septe	ember	<b>30,</b>
190	4, ir	iclusi <b>v</b>	e, am	ounted t	0:		

Regular appropriation		
		\$335,640 97
Classified as follows:		
Cleaning streets	\$57,973 87	
Repairs on unpaved streets	56,675 81	
Crushed stone—material and labor	51,012 55	
Removing snow and ice	21,135 62	
Repairs on paved streets	19,401 91	
Stone—paving and crosswalk	16,038 95	
Barn expenses	11,488 06	
Blacksmith and wheelwright shop	10 200 36	
Repairs on stone crushers	4,833 52	
Steam rollers—repairs and supplies	4,163 74	
Tools, implements, etc	4,072 86	
Labor on material	3,346 17	
Watering streets	2,243 64	
Repairs on buildings, highway yard	1,995 52	
Horses, wagons, harnesses, etc	1,886 25	
Superintendent's salary	1,777 71	
Building driveways, etc	1,234 79	
Watchman at city yard	627 43	
Sundries	564 17	
Office expenses, city yard	238 10	
Fencing streets-material and labor	137 92	
Car fares		
Telephone lines	21 40	
•		\$271,130 35
New Work — Building and ing Streets, Etc.		
SIDEWALKS CURBED AND GUTTERS	PAVED.	
Algonquin street, from Crescent to Reservoir avenue	\$4,048 34	
Bath street, from Orms to Calverley	4,309 91	
Cole avenue, from Lloyd to Irving	1,270 83	
Croyland road, from Oxford street to Sayles	883 50	
Douglas avenue, from Chad Brown street to Ad-		
	070 10	

 miral
 870 19

 Elton street, from Taber avenue to Elmgrove
 1,234 35

Amounts carried forward...... \$12,617 12 \$271,130 ;

Amounts brought forward	<b>\$</b> 12.617 12	\$271,130 35
Fairview street, from Carleton to Pemberton	1,454 92	•,
Hilton street, from Willard avenue to Bogman street	1,249 57	
Morris avenue, from Cypress street to Olney	6,589 10	
Promenade street, north side, from Leland to Cal-	•	
verly	980 74	
Regent avenue, from Harold street to River avenue.	1,667 91	
Rosedale street, from Messer to Ellery	1,615 57	
Sayles street, from Gordon avenue to Prairie Seventh street, from Summit avenue to North Main	1,126 85	
street	3,350 17	
nue	706 98	
Thorne street, from Roanoke to Belmont avenue	605 24	
Troy street, from Westminster to Oak	2,079 85	
University avenue, from Elmgrove to Slater  Wayland avenue, from Lloyd to Irving	3,192 70 1,570 22	
	1,010 22	38,806 94
PAVE WITH GRANITE BLOCKS, ASPHALT, OR BIT MACADAM.	UMINOUS	
Branch avenue, from Veazie street to bridge near Vandewater street		11,394 50
To GRADE AND PUT IN GOOD CON	DITION.	
Hastings and Ledge streets		5,309 18
•		<b>\$</b> 326,640 97
SIDEWALKS AND CUR	BING.	
Bills approved on account of sidewal and curbing from July 1 to September 3 1904, inclusive, amounted to		<b>\$</b> 9,910 <b>7</b> 5
Charged as follows:		
Granite curbing	\$6,199 38 2,874 07 837 30	
	<b>\$</b> 9,910 75	
Curbing bills deposited with the ci	itv	
treasurer for collection from July 1	•	
•		4044 05
September 30, 1904, inclusive, amounted	to	\$911 85

During the quarter, coupons from curbing
bills have been returned by the city treasurer
and receipted for to the amount of

\$1,412 67

Bills approved on account of sidewalks and curbing for the fiscal year ending September 30, 1904, inclusive, amounted to .

\$28,451 78

#### Charged as follows:

Granite curbing	\$15,113 42
Repairing sidewalks and gutters	4,295 91
Concreting sidewalks	4,042 40
·	\$23,451 73

#### CITY ENGINEER.

Bills approved on account of the city engineer's department from July 1 to September 30, 1904, inclusive, amounted to

**\$13,330** 59

#### Charged as follows:

Salary - city engineer	\$1,125	00
Salaries of assistants	10,564	55
Salaries of clerks	842	42
Car fares	403	85
Supplies - drawing material, etc	367	33
Telephone lines	23	49
Meteorological instruments and repairs	1	50
Sundries	1	45
Instruments and repairs	1	00
-		—

\$13,330 59

Bills approved for account of city engineer's department, for the fiscal year ending September 30, 1904, inclusive, amounted

**\$**48,780 57

#### Charged as follows:

Salary-city engineer	\$4,500	00
Salaries of assistants	39,025	54
Salaries of clerks	3,176	95
Car fares	1,011	75
Supplies, drawing material, etc	936	95
Telephone lines	72	34
Instruments and repairs	27	09
Carriage hire	13	13
Meteorological instruments and repairs	8	77
Sundries	8	05

\$48,780 57

#### BRIDGES.

July 15th, the proposal of Charles Crankshaw to furnish the labor and material for extending the westerly abutment of the Adelaide avenue bridge, was accepted.

July 18th, the proposal of Charles Crankshaw to build a culvert across Allens avenue at Burgess cove, was accepted and a contract subsequently executed. Amount \$1,395.70.

July 26th, the proposal of the Eastern Coal Company to furnish and deliver all the New River or Pocahontas coal required to July 1, 1905, at \$4.00 and \$4.15 per net ton, respectively, was accepted.

August 23rd, the proposal of Edward W. Everson to build brick arches and level up with concrete the floors of the post office bridge, was accepted and a contract subsequently executed. Amount \$5,255.00.

September 1st, the proposal of James A. Potter & Company for furnishing and delivering 225,000 feet of southern pine plank on the city what at \$23.00 per thousand, was accepted.

The following work, ordered by the city c	council,	<b>Was</b> 10
progress at the end of the quarter, namely:		

No. of resolution. Date of approval.

Charged as follows:

Dec. 19, 1902, Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; river walls between Burnside and Exchange bridges.

June 21, 1904, Build culvert across Allens avenue at 232. outlet to Burgess cove, and the approaches thereto.

Bills approved on account of bridges from July 1 to September 30, 1904, inclusive, amounted to

**\$6,973 05** 

\$6 10

#### Acorn street bridge..... Adelaide avenue bridge, extension of abutments...

745 42 113 52 Barn expenses..... Building at city yard..... 26 Culvert across Allens avenue at Burgess cove-to 1,719 16 build.... Crawford street bridge..... 4 20 62 29 Eagle street bridge..... Gaspee street bridge..... 16 89 Geneva bridge..... 1 10 Horses, wagons, harnesses, etc..... 45 96 Lumber, hardware, etc..... 96.08 25 33 Manton avenue bridge..... Point street bridge..... 230 67 722 73 Red bridge..... Rent of keeper's house - Washington bridge..... 36 00 Repairs on city wharf..... 12 72 Salaries - Point street bridge..... 1,074 75 621 61 Salaries - Red bridge..... Salaries — Washington bridge ..... 621 06 Smith street bridge..... 38 21 79 63 Sundries..... Telephone lines..... 2.68 Tools..... 92 48 33 45 Veazie street bridge ..... Wanskuck bridge..... 28 64 Washington bridge..... 171 32 Weybosset bridge..... 370 79

\$6,973 05

Bills deposited with the city treasurer for collection from July 1 to September 30, 1904, inclusive, amounted to			<b>\$</b> 91	73
As follows:				
Work for The Rhode Island Company on Red bridgeOld lumber	<b>\$</b> 90	73 00		
	<b>\$</b> 91	78		
During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of			<b>\$</b> 91	73
As follows:				
Work for The Rhode Island Company on Red BridgeOld lumber	<b>\$</b> 90	73 ()0		
	<b>\$</b> 91	73		
Bills approved on account of bridges for				
the fiscal year ending September 30, 1904, inclusive, amounted to		<b>\$2</b> 0	,852	<b>4</b> 5
· · · · · ·		<b>\$2</b> 0	,852	<b>4</b> 5
Charged as follows:  Acorn street bridge Adelaidc avenue bridge, extension of abutments Atwells avenue bridge Barn expenses Branch avenue bridge Branch avenue culvert Building at city yard Burnside bridge Car fares Cemetery street bridge Charles street railroad bridge Crawford street bridge Culvert across Allens avenue at Burgess cove—to	474 16 19 5 12 25 29 33 316 1,719	00 42 64 41 00 61 84 15 33 98 83	9,852	45

Amount brought forward	\$3,580	œ
xchange bridge	29	84
rancis street bridge	129	71
aspee street bridge	26	68
łeneva bridge	106	40
Iawkins street bridge	8	55
Iorses, wagons, harnesses, etc	93	16
umber, hardware, etc	652	20
fanton bridge		60
fanton avenue bridge	292	10
ferino bridge	163	15
fill street bridge	19	62
Tash lane bridge	19	24
ark street bridge	6	44
oint street bridge	2,540	67
Promenade street bridge	68	78
Randall street bridge	21	24
Red bridge	1,496	10
Rent of keeper's house—Washington bridge	144	00
Repairs on city wharf	12	72
Salaries—Point street bridge	3,984	50
Salaries—Red bridge	2,170	86
Salaries—Washington bridge	2,168	10
Smith street bridge	48	45
mithfield avenue bridge	7	90
tevens street bridge	6	01
undries	777	50
Telephone lines	10	72
Cools	431	61
Valley street bridge — north span	83	84
alley street bridge — south span	62	70
eazie street bridge	79	55
Vanskuck bridge	40	06
Washington bridge	932	01
Washington row bridge	18	28
West river street bridge	46	35
Weybosset bridge	618	44
Whelden street bridge	4	28
	\$20,852	45

Bills approved for account of building the Merino bridge, from July 1 to September 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of

**\$**545 6-

Bills approved for account of buildi	ng		
the Merino bridge for the fiscal year endi	_		
September 30, 1904, inclusive, amounted	_	<b>\$12,701</b>	08
Bills approved for account of buildi	ng		
the river walls between the Burnside a	nd		
Exchange bridges, from July 1			
September 30, 1904, inclusive, have be	en		
paid from the special appropriation for the	nat	•	
work, to the amount of		<b>\$7,480</b>	16
Bills approved for account of buildi	ng		
the river walls between the Burnside a	nd		
Exchange bridges, for the fiscal year endi	ng		
September 30, 1904, inclusive, amounted	to	<b>\$</b> 35,940	82
PUBLIC LIGHTS.			
Bills approved on account of the pub	ilic		
lights from July 1 to September 30, 19			
inclusive, amounted to		<b>\$</b> 70,722	76
Charged as follows:			
Arc lights	\$51,797	90	
Incandescent lights	12,532		
Welsbach lights	6,166 207		
Gas for street lights	17	40	
	<b>\$7</b> 0,722	76	
Bills deposited with the city treasu	rer	•	
for collection (for removing gas posts), fr			
July 1 to September 30, 1904, inclusi			
amounted to	•	<b>₽</b> 5	00
•			

During the quarter, coupons from bills	
collected (for removing gas posts), have	
been returned by the city treasurer and	
receipted for to the amount of	

**\$**5 00

Bills approved on account of the public lights for the fiscal year ending September 30, 1904, inclusive, amounted to . . .

\$279,846 72

#### Charged as follows:

Arc lights	\$205,553	98
Incandescent lights	48,286	17
Welsbach lights		74
Salaries		29
Gas for street lights	206	14
Setting and removing gas posts	114	42
Barn expenses	27	50
Horses, wagons, harnesses, etc	13	48
Car fares	5	00

\$279,846 72

#### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from July 1 to September 30, 1904, inclusive, amounted to . . . .

**\$**5,280 44 -

#### Charged as follows:

Salaries of commissioner and secretary	<b>31,850 00</b>
Salaries of office assistants	3,180 62
Office supplies	231 53
Telephone lines	
•	\$5,280 44

Bills approved on account of the public works office for the fiscal year ending September 30, 1904, inclusive, amounted to ...

**\$20,820 80** 

#### Charged as follows:

Salaries of commissioner and secretary	\$7,400	00
Salaries of office assistants	12,399	44
Office supplies	830	26
Telephone lines		10
Carriage hire		00
	920 820	<u></u>

#### CONTINGENCIES.

Bills approved for the inspection of electric wires for the fiscal year ending September 30, 1904, inclusive, have been paid from the appropriation for contingencies to the amount of

**\$16** 50

Abolishing Grade Crossing at Grove Street, Etc.

July 21st, the proposal of Frederick E. Shaw for grading and constructing retaining walls on Barre street, was accepted and a contract subsequently executed. Amount of contract \$35,406.10.

August 11th, the proposal of Earl D. F. Titus to furnish labor and material for raising the house of Peter F. Carr, in connection with the work of building Barre street, for the sum of \$490.00, was accepted.

August 11th, the proposal of Elizabeth J. Lalime to furnish labor and material for raising the house of Thomas F. West on Barre street, for the sum of \$414.00, was accepted.

The proposal of Frank A. Gammino to build a sewer in Bell and Eiswald streets, was accepted. The estimated amount of the work was \$287.40.

August 29th, the proposal of Frank A. Gammino to furnish labor and material for raising the houses of George N.

Whitford and Timothy O'Riley on Barre street, for the sums, of \$320.00 and \$510.00, respectively, was accepted.

September 8th, the proposal of Frank A. Gammino to furnish labor and material for raising the house of Mary Dunlavey on Barre street, for the sum of \$355.00, was accepted.

The following work, ordered by the Board of Aldermen, was in progress September 30, 1904:

Date of order.

June 7, 1904, Building retaining walls, etc., on Barre street.

Bills approved for account of building retaining walls, etc., on Barre street, from July 1 to September 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of . . .

**8**3,874 **18** 

**\$3,950 87** 

WALTER F. SLADE,

Commissioner.

1500.]

CITY DOCUMENT

INO. 4

## EIGHTY-EIGHTH QUARTERLY REPORT

OF THE

## Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING DECEMBER 31, 1904.

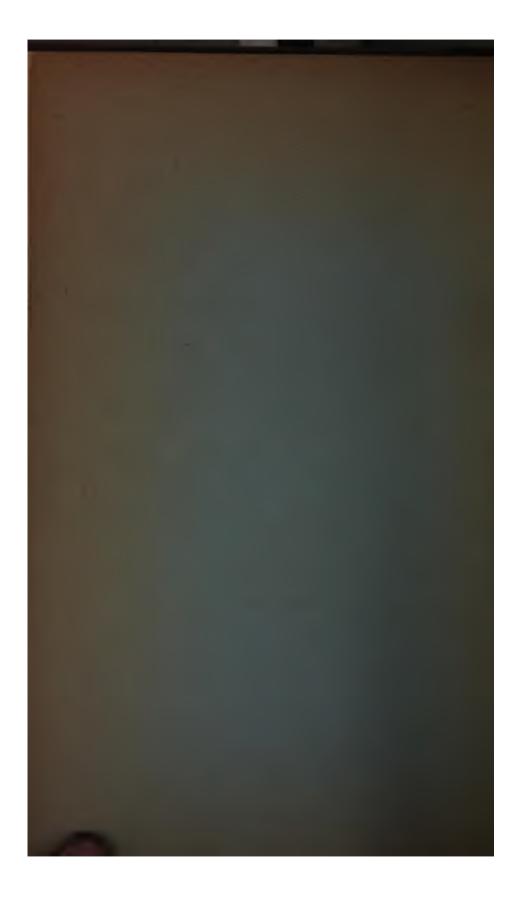


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1903



### EIGHTY-EIGHTH QUARTERLY REPORT

# Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING DECEMBER 31, 1904.



The Drovidence Press:

63 Washington Street.

1905.

P 161245

### REPORT:

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., January 2, 1905.

To the Honorable the City Council:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-eighth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending December 31, 1904.

#### WATER WORKS.

October 31st, the proposal of the Consolidated Engine-Stop Company to furnish and install for the Corliss engine at Pettaconset, one Monarch engine-stop, one Monarch speed-limit and the necessary circuit-closers, vacuum-breaker, battery-test board, etc., for the sum of \$325.00, was accepted.

December 1st, the proposal of the Warren Foundry and Machine Company to furnish and deliver at the city yard 1,788 tons of cast iron water pipe at \$27.20 per gross ton, was accepted and a contract subsequently executed. Amount, \$48,633.60.

December 6th, the following proposals for pig lead, lead pipe, pig tin, and taps and stops, were accepted and contracts subsequently executed, viz.:

The L. H. Tillinghast Supply Company, for 15,000 pounds pig lead at5 cents per pound. Amount, \$750.00.

Phillips Lead and Supply Company, for 11,000 pounds lead pipe at \$5.40 per hundred weight. Amount, \$616 00.

The Congdon & Carpenter Company, for 11,500 pounds lead pipe at \$5.50 per hundred weight, and for 300 pounds pig tin at \$30.75 per hundred weight. Total amount, \$736.25.

John W. Lyon, for taps and stops, various sizes. Amount, \$1,267.20.

December 29th, the proposal of Coffin Valve Company to furnish 6 36-inch flanged water gates for Pettaconset pumping station for \$3,175.00, was accepted.

December 30th, the proposal of Coffin Valve Company to furnish fire hydrants and water gates, was accepted and contract subsequently executed. Amount, \$8,902.00.

The average daily consumption of water during the lass quarter was 14,679,006 gallons, and the average daily cosumption for the year 1904 was 13,857,087 gallons.

Water pipes were laid during the quarter as follows:

which belong were and warms are dament in the	
24-INCH. In Exchange place	452.69 fe
12-ген.	
In Crary street: Allens and Mt. Pleasant avenues	349.57 le
8-inch.	
In Exchange place and Crary street; in Narragansett boulevard and Pontiac avenue in the town of Cranston	718.16 fee
G-inch.	
In Exchange place, Moultrie court, Althea, Barre, Bissell, Fifth, Fisher, Grove, Hart, Jewell, Laban, Meadow, Nelson, Plymouth, Reeder, Smith, Temple streets: Eastwood, Massie, Mechanics, Reynolds and Whitney avenues: in Chiswick road, Carlton, Richard and Transit streets: Bay View, Reservoir and Sylvan avenues in the town of Cranston.	6,860.51 feet
	8,380.93 feet
or $1.587 \pm \text{miles}$ .	

Water pipes	were	abandoned	$\mathbf{or}$	removed	during	the quar-
ter as follows:						

From Exchange place	. 372.37 feet.
8-inch. From Exchange place	. 36.25 feet.
6-inch.	
From Exchange place and Middle street	. 101.67 feet.
Total	. 510.29 feet.
or .096 + mile.	
Statement of sizes and lengths of pipe laid si	nce the com-
Statement of sizes and lengths of pipe laid simencement of the work:	nce the com-
mencement of the work:	
mencement of the work:	10,084.00 feet. 61,328.30 feet.
mencement of the work:	10,084.00 feet. 61,328.30 feet
mencement of the work:  36-inch 30-inch 24-inch	10,084.00 feet. 61,328.30 feet 43,838.61 feet
mencement of the work:  36-inch	10,084.00 feet. 61,328.30 feet 43,838.61 feet 9,626.59 feet
mencement of the work:  36-inch 30-inch 24-inch 20-inch	10,084.00 feet. 61,328.30 feet 43,838.61 feet 9,626.59 feet 33,812.95 feet.
mencement of the work:  36-inch 30-inch 24-inch 20-inch 16-inch	10,084.00 feet.
mencement of the work:  36-inch 30-inch 24-inch 20-inch 16-inch 12-inch	10,084.00 feet. 61,328.30 feet 43,838.61 feet 9,626.59 feet 33,812.95 feet. 106,075.89 feet
mencement of the work:  36-inch 30-inch 24-inch 20-inch 16-inch 12-inch 10-inch	10,084.00 feet. 61,328.30 feet 43,838.61 feet 9,626.59 feet 33,812.95 feet. 106,075.89 feet 15,057.14 feet.

Water pipes were laid during the quarter for the special water service for fire protection as follows:

24-інсн.	
In Exchange place	401.54 feet.
or, .076 + mile.	

Water pipes were removed from the special water service for fire protection as follows:

M-Inon.	
From Exchange place	292.66 feet.
or, .055 + mile.	

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch	23,004.37 feet.
Total	29,517.59 feet.

Thirteen fire hydrants have been set during the quarter, one in each of the following locations:

Allens avenue, east side, 59 feet south of Blackstone street.

Allens avenue, east side, 17.5 feet south of Crary street.

Barton street, east side, 11.5 feet south of Moultrie court.

Barre street, east side, 720 feet north of Grove street. Bluff avenue, Cranston, north side, 315 feet west of Narragansett boulevard. Crary street, north side, 518 feet east of Allens avenue.

Chiswick road, Cranston, north side, 506 feet east of Broad street.

Evergreen street, north side, 350 feet west of Camp street.

Hillwood avenue, Cranston, north side, 259 feet east of Webster avenue.

Laban street, north side, 3 feet west of Ralph street.

Laban street, north side, 501 feet west of Laurel Hill avenue.

Rhodes street, south side, 8 feet west of Allens avenue.

Whitney street, north side, 161.5 feet east of Hope street.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and thirty—nineteen hundred and twenty-four flush, and one hundred and six post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and forty-six water meters were set, of which number forty-four were to replace other meters. The use of eight meters was discontinued.

The following meters were in use at the close of the quarter:

					SIZE.					la La
KIND.	∯-in.	₹-in.	1-in.	1}-in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total.
Ball & Fitts	1,986	412	98	11	4					2,511
Ball & Fitts, rotary			4	7		2	1			14
Crown	9,537	1,137	336	143	44	27	25	1		11,250
<b>E</b> mpire	1,119	153	65	45	14	1	1			1,398
Fales, Jenks & Sons			1							1
Gem					13	29	17	3		62
Thomson	4,556	424	75	54	22	7	7	2		5,147
Trident	102		1							103
Venturi	;								1	1
Worthington	1				1					2
	17,301	2,126	580	260	98			6		20,489

Seven hundred and twenty-nine permits to do plumbing work were issued during the quarter.

One hundred and seventy-nine applications for water were made during the quarter, making the total number twenty-six thousand seven hundred and fifteen.

The number of new service stops opened during the quarter was one hundred and seventy-five.

The total number of service stops opened to December 31, 1904, inclusive, was twenty-six thousand and thirty-four. The number in actual use December 31, 1904, was twenty-three thousand eight hundred and eighty-one.

The following is a list of sprinkler hydrants for car sprinklers, namely:

Angell street, south side, 90 feet east of Wayland avenue, in sidewalk. Branch avenue, south side, 316 feet west of Woodward road, in sidewalk. Camp street, east side, 125 feet north of Olney, in sidewalk. Chalkstone avenue, northeast corner of Fallon, in sidewalk. Dexter street, west side, 18 feet south of Cranston, in sidewalk. Eddy street, west side, at Richmond, in street. Eddy street, west side, 5 feet south of north line of Washington avenue, in street.

Edna street, west side, 16 feet north of south line of car-house. Elmwood avenue, east side, 85 feet south of Thackeray street. Hope street, east side, 125 feet north of Barnes, in street. Manton avenue, west side, 150 feet south of fire station, in sidewalk. Market square, north side, 24 feet east of Canal street, in street. North Main street, west side, 182 feet north of White, in street. North Main street, west side, 17 feet north of Livingstone, in street. Orms street, south side, 23 feet east of Windsor, in sidewalk. Randall square, east side, 32 feet north of Randall street, in street. Richmond street, southwest side, 44 feet southeast of Pine, in sidewalk. Smith street, southwest side, 360 feet southeast of Hilltop avenue, in sidewalk.

Thurbers avenue, south side, 208 feet east of Broad street, in sidewalk. Wickenden street, south side, 167 feet west of Brook, in street. Winter street, east side, 187 feet south of Pond, in sidewalk.

			LE	NOTH O	LENGTH OF SERVICES IN PEET.	CIS IN	FEET.					TAPS USED.	18131				STO	STOPS USED.	ED.		beed.
YEARS.			Sizes of Pipe.	ipe.																	Boxe
	inch.	inch.	inch.	nch.	11 14 inch	14 inch.	Totals.	Trench- ing.	Paving.	<b>≠</b> <u>∃</u>	in-	j	**.5	- ji	EF.	m.i.	*9	erii.	in. in.	fal.	Service
Fo Dec. 31, 1903	9,919.9	To Dec. 31, 1903 9,919.9 239,334,88	22,448.29 4,957.0 480.3 64.8	4,957.0	3,638.2 457.7		280,355.97	280,355.97 294,883.79	35,955,28 612 14,384 1,704	612	14,384		826	346 1	346 17,472 645 15,306 1,414 306	645 15	308 1	14 82	90 7	933 17,966 18,475	18,475
tals	9,919.9	Totals 9,919.9 247,740.08	22,928.59	5,021.8	3,834.0	12.73	289,502.07	- ×	100	619	14,896		138	356 18	438 356 18,038 645 15,854	1 21		1,442	310	302 18,553 19,075	19,075

1			LENG	TH OF	SERVI	LENGTH OF SERVICES IN FEET	SET.		N	MBE	R A S	NUMBER AND SIZE	-	NAN	BER	N.A.	NUMBER AND SIZE	89
MONTHS.		SIZE	Size of Pipe.	PE,			Total	Total		T A	Sal	OF TAPS USED.		OF	OF STOPS USED.	£	SID.	e Box
	inch.	inch.	inch. inch. inch.		14 inch.	Totals,	Trench-	Length of Pav- ing.	-á	œġ.	æ.j	in. T	Total.	֖.	**	## E	in. Total.	Servio
January	&C	1	1		1	8.9	9.		1	1	-		-	-	1 :		1	24
February	27.			20.3	******	47.2	.19	9,	e5	:	:	-	4	60	*	*	4	_
March	9.191		*****	******		161.6	168.	16.	00	:	:	***	90	00	-	:	00	
April	1,230.	8.02	26.2	26.2		1,333.2	1,396.	922.	23	*	-	-	62	92		-	88	86
Мау	1,342.2	126.8	8.2	-	1	1,477.2	1,554.	.305.	81	6	01	-	92	98	6	1	98	8
June	1,039 4	36.4		32.2	· vui	1,108.	1,161.	174.	20	11	:	-	8	90		:	3	9
July	986	46.4		-		1,041.4	1,002.	.02	10	00	60	:	63	22		-	20	9
August	. 685.7	46.4	8.2		CALLES .	740.3	780.5	122.	4	64	200	1	48	-	69	1	99	20
September	614.2	57.4	1000	20.2	1	8.169	728.	67.	52	10	1	-	43	=	- :	:	1 46	*
October	8.2.8	53.2	******	80.6		1,016.6	1,076.	113.	8	29	-	80	99	83	01		3 68	9
November	978.1	t-	20.00	16.4		1,024.3	1,080.5	90.	8	CH	-	09	99	15	-		17	51
December,	\$	6.99	-	*		496.3	524.5	70.5	32	C#	1	-	g	8	20	100	98	98
Total Park	8 405 9: 480 3	087	3	195.8		9,146.1	9,623.6	1,105.6 512	512	35	2	9	000	546	8	1 4	0 047	900

Changes in size and location of services in 1904:	
n size and location of services	1904:
n size and location of	Ξ.
n size and le	services
n size and le	$\mathbf{o}$
n size	location
c	and
Changes in	size
Changes	ij.
	Changes

EN C	TAREN OUT.			IN	INSERTED,	1	1			TAKEN OUT.	, Our.				I.	INSERTED	3		·Sai		in size only	ocation.
1 2	inch.	finch.	inch. inch. inch. inch. inch. inch.	inch.	inch.	inch.	inch. inch. inch.	inch.	inch.	inch.	inch. inch. inch.	14 inch.	14 inch.	inch.	inch. inch. inch		inch.	13 inch.	Тгевсћ	Paving	Change	Change
	90	21	1111	8	7	7	10	685.3	675.1	64.3	64.3 114.1	34.4	34.4	7:39.7	242.4	729.7 242.4 94.4	95.6	1	1,867,5 854,5 52 9	854.5	52 9	2

February March April May	September 184 147 October 138 136 No vember 100 104 December 166 88 46
	1 2
1 8 00 to	188 100 88
18 100 100 200 200 200	11 104 1
18 108 141 151	188 188
15 16 32 4 4	10 2 2 2
25 25 108 168 148 148	2 2 2 8
2 2 2 2 2 1	8 2 2 8
18 60 80 19 19 19 19 19 19 19 19 19 19 19 19 19	8 % 2 4
9 2 2 2 2	1 8 8 2
13 46 68 84 84 84 109	2 2 2 2
m m 12 8 2	8 2 2 3
18928	2 2 2 2
8 13 28 12 28	2 + 9 2
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F G \$ 5 5 5	2 2 2 3
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- 2888	2883
2 2 8 8 8	8848
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	and the second of
- 8 8 8 8	8248
28488	2828
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18 TE 23 E	
28852	2222

The receipts for water each year since the commencement have been as follows:

Year.	Amount.	Year.	Amount.
872	\$41,003 51	1889	\$377,497 97
×73	97,386 09	1890	401,140 86
874	132,052 39	1891	404,553 84
875	165,144 71	1892	409,421 21
876	183,868 73	1893	427,546 51
877	200,039 39	1894	432,383 97
878	218,883 33	1895	471,069 97
879	229,551 78	1896	485,187 33
.880	247,705 06	1897	490,652 47
.881	260,530 87	1898	502,603 10
882	269,318 77	1899	522,124 46
883	283,632 89	1900	554,949 62
884	302,368 36	1901	578,869 07
885	313,561 21	1902	605,307 35
886	323,084 67	1903	621,016 74
887	<b>339,513 60</b>	1904	670,700 90
888	346,731 58		

The amount of bills approved on account of water works from October 1 to December 31, 1904, inclusive, was:

# Classified as follows:

# PETTACONSET PUMPING STATION.

Allis Chalmers high-duty engine, to furnish and		
erect	\$19,243	26
Coal and wood	4,898	<b>\$</b> 1
Sundries	1,871	90
Worthington high-duty engine	1,413	<b>30</b>
Corliss pumping engine and house	895	<b>8</b> 0
Firemen	850	00
Amount carried forward	<b>\$29,173</b>	 07

Amount brought forward	\$29,173 07	
Engineers	800 71	
New chimney, to furnish and erect	<b>590 66</b>	
Superintendence	377 86	
Oil, waste and packing	214 22	
Repairs on boilers	135 30	
Lights	126 06	
Labor on fuel.	105 60	
Barn expenses	57 12	
Cornish engine house	56 96	
Care of grounds	52 65	
Cornish pumping engine	16 65	
Installation of sand filtration plant at Pettaconset	3,333 66	
instantation of said intration plant at rettacouset		\$35,040 52
Sockanosset Reservoir.	<b>410</b> 0 or	
	\$189 85	
Watchman	184 00	are ut
•		373 85
Hope Pumping Station.		
Firemen	\$406 90	
Engineers	302 29	
Holly pumping engine	119 50	
Coal and wood	79 70	
Sundries	61 15	
Lights	50 90	
Repairs on boilers	1 93	1,022 37
Hope Reservoir.		-,
Watchman	<b>\$207</b> 00	
Sundries	183 58	
-		390 5
FRUIT HILL RESERVOIR.		
Sundries	<b>\$506</b> 21	
Watchman	207 00	
-		713
Meter Department.		
	<b>6</b> 3 047 94	
Water meters	\$3,947 84	
Setting and repairing meters	1,644 68	5,592
Amount carried forward		843.133
Amount carried forward		C.40, 100

Amount brought forward		<b>\$4</b> 3,1 <b>33</b> 0
PIPE LINE AND SERVICE STOR	PS.	
Repairs	\$4,219 95	
Superintendence — salaries	877 83	
Inspection of pipe line and services	723 76	
-		5,821 5
PIPE YARD.		
Laying water pipe	\$6,341 12	
Service pipe	1,648 87	
Laying service pipe	1,322 58	
Pig lead and tin	891 10	
Taps and stops	344 86	
Fools	291 63	
Special castings	249 02	
Labor on and carting pipe	195 30	
Pipe yard, office expenses	126 34	
Cast iron water pipe	17 35	
Repairs on pipe yard buildings	17 06	
Fire hydrants, boxes and covers	16 90	
<del>-</del>		11,462 13
Miscellaneous.		
_		
Fown of Cranston, tax	\$7,083 94	
Clerks' and inspectors' salaries	1,561 39	
Barn expenses	738 39	
Prevention of defilement of the Pawtuxet	519 <b>9</b> 9	
Fown of North Providence, tax	400 00	
Horses, wagons, harnesses, etc	125 39	
Telephone lines	122 68	
Car fares	100 00	
Thawing out water pipe	13 42	
Public drinking fountains and troughs	12 60	10,707 80
		\$71,124 52
		• ,
For construction,	. 88	33,322 61
Charged as follows:		
Installation of sand filtration plant at Pettaconset,	<b>\$</b> 33,322 61	
The total expenditures to December 3	1.	
		35,011 84
1904, inclusive, was		

December 31, 1904, inclusive, was	• • • • • • • •	• • •	<b>\$6</b> 2,151 63
The net expenditure for maintenance to December necessary, was			<b>\$</b> 2,162,513 00
The net expenditure for construction from July December 31, 1904, inclusive, was			\$168,801 57
The value of the water works syste	m,		
January 1, 1904, as estimated by the ci	ity		
engineer, was as follows:	•		
Sockanosset, Hope and Fruit Hill reservoirs Main lines and distribution pipes	706,531 2,703,862		
Real estate in Pawtuxet and Lincoln	15,975 44,939	96	<b>\$</b> 3,938,533 <i>'</i> 9
Real estate in Pawtuxet and Lincoln	15,975 44,939 rer	96	<b>\$3,938,533</b> 29
Real estate in Pawtuxet and Lincoln	15,975 44,939 rer	96	\$3,938,333 <u>29</u> 81,663 67
Real estate in Pawtuxet and Lincoln	15,975 44,939 rer	96	
Real estate in Pawtuxet and Lincoln  Fools and supplies  Bills deposited with the city treasure for collection from October 1 to December 31, 1904, inclusive, amounted to  As follows:	15,975 44,939 rer	96	
Real estate in Pawtuxet and Lincoln  Fools and supplies  Bills deposited with the city treasure  for collection from October 1 to December 1, 1904, inclusive, amounted to  As follows:  Water	15,975 44,939 rer cer	96 	
Beal estate in Pawtuxet and Lincoln  Cools and supplies  Bills deposited with the city treasure  for collection from October 1 to December  B1, 1904, inclusive, amounted to  As follows:  Water  Water meters  Setting and repairing meters	15,975 44,939 rer cer \$73,208 3,896 2,002	96 	
Beal estate in Pawtuxet and Lincoln  Cools and supplies  Bills deposited with the city treasure  for collection from October 1 to December 1, 1904, inclusive, amounted to  As follows:  Water	15,975 44,939 rer cer \$73,208 3,896 2,002 1,720	96 	
Beal estate in Pawtuxet and Lincoln  Cools and supplies  Bills deposited with the city treasure for collection from October 1 to December 1, 1904, inclusive, amounted to  As follows:  Water	15,975 44,939 rer cer \$73,208 3,896 2,002 1,720 649	96  85 00 95 33 09	
Real estate in Pawtuxet and Lincoln  Fools and supplies  Bills deposited with the city treasure  for collection from October 1 to December  31, 1904, inclusive, amounted to  As follows:  Water  Water  Water meters	15,975 44,939 rer cer \$73,208 3,896 2,002 1,720 649 82	96  85 00 95 33 09 00	
Real estate in Pawtuxet and Lincoln  Fools and supplies  Bills deposited with the city treasure for collection from October 1 to December 31, 1904, inclusive, amounted to  As follows:  Water	15,975 44,939 rer cer \$73,208 3,896 2,002 1,720 649 82 61	96  85 00 95 33 09	
Real estate in Pawtuxet and Lincoln  Tools and supplies  Bills deposited with the city treasure for collection from October 1 to December 31, 1904, inclusive, amounted to  As follows:  Water	15,975 44,939 rer cer s73,208 3,896 2,002 1,720 649 82 61 30	96  85 00 95 33 09 00 25	
Bills deposited with the city treasure for collection from October 1 to December 31, 1904, inclusive, amounted to	15,975 44,939 rer cer \$73,208 3,896 2,002 1,720 649 861 30 11	96 	

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

to the amount of \$88,698

As follows:

**\$955** 50

Water	<b>\$</b> 79,643	77	
Water meters	3,845	00	
Setting and repairing meters	2,751	64	
Labor and material, laying services, etc.,	1,814	37	
Sale of old metals	347	72	
Rent of real estate	115	<b>5</b> 0	
Penalties	82	00	
Repairs on pipe line	66	66	
Permanently closing service stops	30	00	
Blue prints of water distribution	2	00	
•			<b>\$88,698</b> 66

# SEWERS.

During the quarter ending December 31, 1904, two hundred and seventy permits were issued to drain-layers—one hundred and forty-three for new work and one hundred and twenty-seven for extensions and repairs of drains.

October 11th, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials.]

		To Frederick E. Shaw.	
No. of	resolution	n. Date of approval.	
330.	Oct.	7, 1904, Douglas avenue, from Farmer street to Vandewater, \$1,965 20	)
		To Charles Crankshaw.	
331.	Oet.	7, 1904, Reservoir avenue, from Elmwood to Adelaide, and in Adelaide avenue, from Reservoir westerly across land of New York, New Havenand Hartford Rail- road Co. to main trunk	

sewer, .

October 13th, the proposals of the Charles S. Bush Company and Starkweather & Williams Company to furnish prime green copperas during the year 1905 at forty-nine cents per hundred pounds, f. o. b. Harbor Junction wharf, were each accepted for one-half the quantity required.

October 19th, the proposal of James C. Goff to furnish and deliver on the city wharf one cargo of Sanford bricks at \$10.00 per thousand, was accepted.

October 26th, the proposal of Frank A. Gammino to lay a drain in Livingstone street, from Mechanic avenue to Printery street, at \$1.20 per linear foot, was accepted.

October 31st, the proposal of B. L. Ames to equip the four boilers at Ernest street station with the patent simplex smoke preventers for the sum of \$500.00, was accepted.

November 30th, the proposal of the New England Steam Brick Company to furnish and deliver in the city yaul 150,000 Barrington bricks at \$10.15 per thousand, was accepted.

December 19th, the proposal of Charles M. Kelly to funish and deliver along the line of the work the Portland cement required during 1905, was accepted and a contract subsequently executed.

December 19th, the proposal of the H. R. Horton Company to furnish and deliver along the line of the work the natural cement required during 1905, was accepted and a contract subsequently executed.

December 23d, the proposal of Edwin D. Allen to furnish sewer pipe was accepted and a contract subsequently executed. Amount, 86,087.15.

December 23d, the proposal of the Smithfield Granite

Company to furnish and deliver one hundred catch-basin inlet stones at \$4.80 each, was accepted.

December 23d, the proposal of The Warner-Miller Company to furnish and deliver in the city yard, one hundred and thirty catch-basin flagstones at \$5.25 each, was accepted and a contract subsequently executed.

SEWERS CONSTRUCTED TO DECEMBER 31, 1904, IN MILES.

ITEMS.	KIND.	Built previous to 1904.	Built during 1904.	Total to Dec. 31, 1904.
Under regular appropria-	•			-
tion	Brick.	38.312	. 964	39.296
Under regular appropria-				
tion	Pipe,	129.589	3.175	132.764
Under improved sewerage	•			
appropriation	Brick and Pipe.	28.376	.012	28.388
Total miles of sewers	<del></del>	196.277	4.171	200.448

During the year, 105 catch-basins, 93 extra inlets, and 239 manholes have been built, making a total in use December 31, 1904, of 4,701 catch-basins, 1,595 extra inlets, and 8,632 manholes.

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution. Date of approval.

Date of completion.

58. Feb. 2, 1904, Thayer, Manning and Brook streets, (storm

sewer), . . Nov. 9, 1904.

202. June 7, " Veazie street, from near Douglas avenue to Branch, Oct. 26, 1904.

302.

. Dec. 31, 1904.

No. of r	esolution. Dat	e of approval.	Date of completion.
219.	June 17, 1	1904, Exchange   1 Exchange   8	place, from street to the
300.	Sept. 13,	•	Oct. 29, 1904.
301.		" Eighth stre point 50 feet	Umgrove, Nov. 7, 1904. eet, from a t west of Sum- o North Main

Work upon the following sewers was in progress at the close of the quarter, namely:

Nebraska street, from

near Rugby to Eddy, . Oct. 11, 1904.

street,

No. of resolution. Date of approval.

60. of resolution. Date of approval.
60. Feb. 2, 1904, Alverson, Eastwood, Laurel Hill and

Hartford avenues.

201. June 7, 1904, Barre street, from Grove to about 1,300 feet northerly; also westerly through right of way across tracks of N. Y., N. H. & H. R. R. Company to Harris

Work upon the following sewers, completing the work ordered by the city council, had not commenced December 31, 1904, namely:

avenue.

No. of resolution. Date of approval.

- 53. Feb. 2, 1904, Admiral street, from Hillwood to end of present sewer in Admiral.
- 330. Oct. 7. " Douglas arenne, from Farmer street to Vandewater.
- 331. " " Reservoir avenue, from Elmwood to
  Adelaide, and in Adelaide avenue, from
  Reservoir westerly across land of the
  N. Y., N. H. & H. R. R. Company to
  main trunk sewer.

Carcing   Carc			OLD	OLD WORK.								NEW W	WORK.				
1   1   1   1   1   1   1   1   1   1	<u> </u>	AINS.	S, CAT	AND-	č		CHES.	ō.	MPs.		SK	TERS.		' Y	CATCH-BARINS		-91 Ji
Ty         105.22         10         9.48           Ary.         1         180         13.88         5         73.34         65         11,500         100.07           Ary.         1	Number. Iength	removed,	Zamber.	removed	Number.	Length in feet.	removed,	Уптрет.	cu. yarda.	Zumber.	Length in feet.	removed,		No. times banined.	Number cleaned.	Deposit removed, cu. yards.	Total depos
ATY.         Throng the control of			:		Π			01		<u>                                     </u>		9.48		Ī :	   		
t	=		:					(-		=	:	10.01	:				115.29
there 3 275 11.42 12.00 66 10,975 63.74 68.15 11.80 11.11 19.00 50.22 14.07 17.80 11.11 19.00 57.02 14.07 18.80 67		:	:	:	_	180	13.88	10	7.	3	11,500	122.41	:	cı	9	1,244.60	1,453.63
ther. 8 26.75 2 20.37 20 159.80 47 6.80 22.80 1 10.400 55.07 1 10.400 55.07 1 10.400 55.07 1 10.400 55.07 1 10.400 55.07 1 10.400 55.07 1 10.400 55.07 1 10.400 55.07 1 10.400 55.07 1 10.400 55.07 1 10.400 55.07 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8	:	:		_		+	_	8	10,975	63.74	+	61	1,166	1,342.56	1,592.05
there 3 275 11.42 8 26.75 2 325 29.37 20 159.89 47 66.900 22.82 11.80 11.80 11.1 19,000 50.22 11.80 11.80 11.1 19,000 50.22 11.80 11.80 11.1 18,880 67.07 11.80 11.80 11.1 18,880 67.07 11.80 11			<u>:</u>		:	:	:	6	<u>ç</u>	12:	8,975	58.15	:	-	1,414	1,776.58	1,904.18
tt (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d			or.		:	:	:	2)	89	8	10,400	55.07	8	-	1,707	1,918.07	2,072.12
3 275 11.42 1 175 6.48 9 141.30,111 19,000 50.22 1 175 6.48 6 126.30,111 18,880 67.02 8 1 175 6.48 6 126.30,111 18,880 67.07 8 21.26 1 670 24.07 14 173.00,121 22,200 95.66	<u>:</u>		<u>:</u>		21	35	30.37	ફ	£	ç	008'9	£.55	8	_	1,380	1,377.48	1,580.56
3 275 11.42 1 175 6.48 9 141.30,111 19,000 50.22 1 175 6.48 6 126.30 111 18,880 67.07 8 21.26 1 670 24.07 14 173.00121 22,200 95.66	===	:	_:				:	2	172.891	şî	90,00	47.89	:	ç1	1,305	1,667.00	1,887.78
8 21.26 1 670 24.07 14 173.00121 22,200 95.66	es			:	_	175	9 <del>4</del> .	c.	141.30.1	=	19,000		13	 - 21	1.00	1,665.26	1,874.68
8 21.26 1 670 24.07 14 173.00121 22,200			:	:		13	6.48	<u>~</u>	126.30 1	=	18,880	67.07	17.	÷ı	1,277	2,232,18	2,432.03
			×	•	_	03	24.07	Ξ	173.00'1	55	007,52	95.66			1.267	1,582.07	1,496.06
105.89 11 14			_	:	:	:	:	9	105.89	=	:	31:		-	373	362.81	187.92

In addition to the accompanying form, the following work has been performed by the sewer maintenance department for the year 1904:

#### WORK ON SEWERS.

Examined all sewers with candles for condition and deposit, and all gates, slots, and sumps for same forty-eight times. Repaired twenty-two gates, thirty-two holes, three sumps, sixty-eight manholes, seventeen houseconnections, and intake at brick station. Replaced 102 manhole frames, 152 manhole covers, three track grates and two gates. Reset 281 manhole frames; cut in twenty-three connections; brought six manholes to grade and removed roots from 108 sewers. Built retaining dam, overflow in intake, and pounded and sodded banks at brick station.

#### WORK ON BASINS.

Flushed 3,159 traps and 3,214 chutes to basin. Removed snow from 32,565 inlets and thawed out 869 chutes. Repaired twenty-nine basins, thirty-six chutes, forty-seven holes, five basin connections and thirty-one basins with gravel. Replaced twenty-two covers, four track grates, and thirteen traps. Reset eighty-three traps; re-connected one basin with sewer; removed roots from six chutes; put thirty-four extra traps in basins and one extra inlet frame and cover; altered thirty-six chutes and examined basins for concrete.

#### OLD WORK.

Repaired nine old drains, seven chutes, one old drain, and retaining wall on Promenade street; levelled seven dumps; built four chutes, and removed sand from sidewalk on Ernest street, east of Allens avenue.

#### MISCELLANEOUS WORK

Flushed ninety private connections, charged \$210.00: flooded skating pond on Smith street \$2.50 and filled one cistern, \$2.00: pumped out twelve cellars, \$114.84, one cistern, \$7.20, and tank at Empire Theatre, \$8.00: supplied water for Rhode Island Company, \$30.25 and for New York, New Haven and Hartford Railroad Company, \$26.25: thawed out gravel for Edward W. Everson, \$4.00: puddled ditches and pumped out wells, \$177.29: and puddled one cellar, \$4.85; altered chutes, manholes, basins, and built basins for Rhode Island Company, \$510.86; built chute on Beach street for Brown & Sharpe Manufacturing Company, \$15.87: repaired sewer for Providence Journal Company.

For Sewer Construction Department: Built twenty basins, thirty-nine chutes, three manholes, one sump, two slots, seventy feet of fifteen-inch pipe sewer, twenty-four feet of twelve-inch pipe sewer, twenty-eight feet of eight-inch pipe sewer, seventy-one feet and nine inches of thirty-inch brick sewer, fifty-five feet of thirty-six-inch brick sewer and 101 feet of thirty-eight-inch brick sewer. Removed nine inspectors' houses.

For Water Maintenance Department: Made repairs and fired boilers at and removed ashes from Hope station, pounded banks at Hope reservoir:

Bills deposited with the city treasurer	
for collection from October 1 to December	
31, 1904, inclusive, amounted to	

**\$1,533** 71

#### As follows:

Miscellaneous work	<b>\$632</b>	34
Cleaning private connections	75	75
Pumping out cellars, etc	5	00
Sewer material	817	22
Testing cement	3	40
<del>-</del>	<b>S</b> 1 533	71

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$1,623** 10

#### As follows:

Miscellaneous work	<b>\$63</b> 0	59
Cleaning private connections	71	00
Pumping out cellars, etc	25	86
Sewer material	892	25
Testing cement	3	40
	\$1,623	10

# HIGHWAYS.

Three permits to open streets were issued during the quarter.

October 17th, the proposal of the Connecticut Trap Rock Quarries to furnish and deliver in the city yard 1,000 tons of trap rock at \$1.20 per ton, was accepted.

November 11th, the proposal of the Taylor Iron and Steel Company to furnish and deliver various crusher eastings for the sum of \$1,038.00, was accepted.

4

December 6th, the proposal of the Buffalo Steam Roller Company to furnish and deliver two sets of front wheels and one set of rear wheels for steam rollers for the sum of \$945.00, was accepted.

CITY DOCUMENT.

December 27th, the proposals of the following parties to furnish and deliver in the city yard granite blocks for the sum of \$1.50 per square yard, were accepted, namely:

Catto Granite Company	25,000 blocks.
Joseph Newall & Company	25,000 blocks.
Calder & Carnie	25,000 blocks.
Westerly Granite Works	25,000 blocks.
Smith Granite Company	10,000 blocks.

Nine hundred and eighty notices to build or repair sidewalks were served on the abutting owners during the year The work, including two hundred and fourteen brought over from the preceding year, was done as follows:

By the abutting owners	3038
By the city, at the expense of the abutting owners	121
Extension of time for doing work granted to	31
Work not done	104

The length of received streets December 31, 1904, was 233,76 miles, measured on street lines and to street line intersections. But, as it is customary in street construction or street paving to complete the work to the curb line intersection, the lengths in the following tables are measured on those lines and sub-divided as follows:

Received streets	239, 82 miles
Streets curbed and built	163.34 miles.
Streets not curbed, but the roadway macadamized or	
graveled	29.01 miles.
Streets paved	33.50 miles.
Streets received, but not improved	15.97 miles.
Total	239.82 miles.

The actual area of street pavement is 741,229 square vards. If this is estimated to an average width of roadway of 30 feet, it would be equal to 42.11 lineal miles, and is sub-divided as follows:

Granite blocks	31.04 miles.
Cobble	5.11 miles.
Asphalt	5.07 miles.
Vulcanite	.47 miles.
Brick	.42 miles.

In addition to the general patching necessary to maintain the streets in good repair, the following work has been done during the year ending December 31, 1904, namely:

New streets built	11,495.00 linear feet.
Curbing set	21,519.00 linear feet.
Streets rebuilt	15,150.00 linear feet.
Streets resurfaced	173,225.00 linear feet.
Streets graded	5,940.00 linear feet.
Block pavement laid	11,178.00 square yards.
Cobble pavement laid	None.
Asphalt pavement	3,961.35 square yards.
Asphalt pavement relaid	3,561.52 square yards.
Cobble pavement relaid	4,468.90 square yards.
Block paving relaid	19,023.02 square yards.
Brick paving relaid	369.79 square yards.
Concrete sidewalks laid	2,913.03 square yards.
Concrete sidewalks patched and top-dressed	4,457.27 square yards.
Crushed stone used	55,698.12 tons.
Screened gravel used	5,705.00 cubic yards.

Of the above amount of pavement relaid, the cost of relaying 10,360.09 square yards, amounting to \$17,127.76, was paid by the corporations for which the work was done.

During the year the following streets, aggregating 32.813 miles, have been resurfaced, namely:

Aborn street, from Sabin to West Exchange.
Adelaide avenue, from Reservoir to Downing street.
Admiral street, from Eagle Park to Douglas avenue.
Allens avenue, from Blackstone street to Public.
Alverson avenue, from Plainfield street to Hartford avenue.
America street, from Atwells avenue to Federal street.
Angell street, from Brook to Thayer.
Arch street, from Elmwood avenue to Junction street.
Armington avenue, from Academy to Carleton street.
Ashburton street, from Chalkstone avenue to Charles street.

Atwells avenue, from Bradford street to Arthur avenue.

Atwells avenue, from Sabin street to Bourne.

Bassett street, from Chestnut to Ship.

Bates street, from Lippitt to Mallett.

Bell street, from Eden to Eiswald.

Benefit street, from Waterman to College.

Beverly street, from Sabin to Mason.

Blackstone street, from Prairie avenue to Eddy street.

Bowdoin street, from Appleton to Amherst.

Branch avenue, from Thurbers lane to Smithfield avenue.

Broad street, from Public to Pine.

Brook street, from Power to Angell.

Brown street, from Olney to Waterman.

Butler avenue, from Angell street to Irving avenue.

California avenue, from Eddy street to Virginia avenue.

Carpenter street, from Knight to Courtland.

Chalkstone avenue, from Charles street to the railroad bridge.

Chalkstone avenue, from River to Lisbon street.

Chalkstone avenue, from Winthrop to Rowley street.

Charles street, from Branch avenue to the railroad bridge.

Claverick street, from Broad to Bassett.

Clifford street, from Chestnut to Richmond.

College street, from Benefit to South Main.

Courtland street, from Westminster to Pierce.

Crary street, from Plain to Hospital.

Cromwell street, from Elmwood avenue to Dexter street.

Daboll street, from Updike to Elmwood avenue.

Diamond street, from Dexter to Hollis.

Douglas avenue, from Admiral street to O'Neil. Dover street, from Pemberton to Carleton.

Dudley street, from Eddy to Plain.

Eddy street, from Pavilion avenue to Broad street.

Eiswald street, from Bell to Grove.

Elbow street, from Hospital to Ship.

Elmwood avenue, from Earl street to Trinity square.

Empire street, from Westminster to Fountain.

Everett avenue, from Elmgrove to Wayland.

Evergreen street, from North Main to Camp.

Fillmore street, from Douglas avenue to Oregon street. Francis street, from Brownell to Smith.

Frank street, from Plain to Prairie avenue.

Fruit Hill avenue, from Manton to Woonasquatucket.

George street, from Benefit to Brook. Globe street, from Hospital to Eddy.

Grove street, from Valley to Harris avenue.

Harrison street, from Westminster to Cranston.

Hastings street, from Northup avenue to Ledge street.

Hawkins street, from Admiral to Branch avenue. Hayward street, from Myrtle to Lockwood.

Helme street, from Valley to Harris avenue

Hendrick street, from Academy avenue to Carleton street.

Hollis street, from Diamond to 200 feet westerly. Hope street, from Lloyd avenue to Barnes street. Hope street, from Pleasant to Cypress. Hopkins street, from Benefit to South Main. Hospital street, from Bassett to Globe. Howell street, from Camp to North Main. Huntington avenue, from Carter street to Westminster. Julian street, from Amherst to Atwells avenue. Kay street, from Thurbers avenue to the railroad. Killingly street, from Hartford avenue to the city line. Kossuth street, from Bowdoin to Hyat. Laban street, from Gifford to Heath. Laurel Hill avenue, from Plainfield street to Hartford avenue. Ledge street, from Hastings to Smithfield avenue. Lockwood street, from Pine to Broad. Logan avenue, from Rugby to Prairie avenue. Magnolia street, from Bancroft to Whitehall. Mallett street, from Olney to Bates. Manning street, from Brook to Thayer. Manning street, from Hope to Governor Mason street, from Aborn to West Exchange. Mawney street, from Updike to Elmwood avenue. Merino avenue, from Barbara street to the bridge. Messer street, from Westminster to Cranston. North Grove street, from Smithfield avenue to Cemetery street. North Main street, from Frost to Sexton. Northup avenue, from Hastings street to Luna. Olney street, from Hope to Camp. Parade street, from Westminster to Wood. Park street, from Brownell to Promenade. Pettis street, from North Main to Printery. Pitman street, from Waterman to Ives. Plain street, from Elm to Potters avenue Planet street, from South Main to Benefit. Pocasset avenue, from Webster to the city line. Potters avenue, from Dexter street to Calhoun. Potters avenue, from Eddy street to Ocean. Power street, from South Main to Governor. Promenade street, from Gaspee to Calverly. Prospect street, from Olney to Waterman. Putnam street, from Atwells avenue to Kossuth street. Redwing street, from Elmwood avenue to Bucklin street. Reservoir avenue, from Elmwood to Algonquin street. Ringgold street, from Broadway to Carpenter street. Rochambeau avenue, from Camp street to North Main. Shawmut street, from Chalkstone avenue to Orms street. Silver Spring street, from Charles to Branch avenue. Smith street, from Canal to the railroad bridge. Smith street, from Elmhurst avenue to Camden. Smithfield avenue, from Ledge street to Northup avenue.

South Angell street, from Waterman to Butler avenue.

Sprague street, from Dexter to Elmwood avenue. Staniford street, from Bogman to Willard. Star street, from Benefit to North Main. Stewart street, from Westminster to Friendship. Stimson avenue, from Angell street to Hope. Superior street, from Dexter to Hollis. Superior street, from Cranston to Wendell. Thayer street, from Barnes to Angell. Thayer street, from Manning to Angell. Thomas street, from Benefit to North Main. Transit street, from South Main to Hope. Trinity square. Union avenue, from the railroad bridge to Messer street Union avenue, from Webster to Laurel Hill. Vandewater street, from Douglas avenue to Branch. Veazie street, from Douglas avenue to Houghton street. Washington avenue, from Eddy street to Virginia avenue. Washington street, from Jackson to Knight. Waterloo street, from Dexter to Parade. Waterman street, from Prospect to North Main. Waterman street, from Butler avenue to East River street. Wayland avenue, from Angell street to Pitman. West Clifford street, from Somerset to Dudley. Whipple street, from Oregon to Douglas avenue. Williams street, from Hope to Governor. Willard avenue, from Broad street to Prairie avenue. Woodward road, from Veazie street to the city line. Woonasquatucket avenue, from Fruit Hill to the city line. Young Orchard avenue, from Hope street to Governor.

2.87 miles of streets have been rebuilt during the year-namely:

Elbow street, from Ship to Hospital. Elmwood avenue, from Earl street to Trinity square. Hawkins street, from Branch avenue to Cornwall street. West Clifford street, from Somerset to Dudley.

1.08 miles of streets have been graded during the year namely:

Adelaide avenue, from Reservoir to Downing street.
Algonquin street, from Reservoir avenue to Crescent street.
Bath street, from Orms to Calverly.
Dover street, from Mount Pleasant avenue westerly 150 feet,
Elton street, from Elmgrove avenue to Taber.
Magnolia street, from Bancroft to Whitehall.
Mount Pleasant avenue, from Dover street northerly 150 feet.
Troy street, from Westminster to Oak.
University avenue, from Elmgrove to Wayland.

The following work was in progress December 31, 1904:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

June 16, 1904, Barre street, from Ridge to Bell.

Oct. 20, " Laban street, from corner of Laurel Hill avenue to Merino street.

The following work, ordered by the board of aldermen and city council, had not commenced December 31, 1904, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

June 16, 1904, Bell street, from Barre to Eden.

Sept. 15, " Nebraska street, from Eddy to Rugby.

Oct. 20, " Tiber street, from Ridge to Swiss.

- " " " Grand street, from Potters avenue to Huntington.
- " " Eastwood avenue, from Laurel Hill to Merino street.
- Nov. 17, " Ninth street, from North Main to Highland avenue.
- Dec. 15, " Everett avenue, from Arlington to Elmgrove.

**\*84,242** 07

#### Classified as follows:

Repairs on unpaved streets	\$22,134	73
Crushed stone — material and labor,	17,824	90
Cleaning streets	15,715	35
Removing snow and ice	5,664	37
Repairs on paved streets		30
Stone - paving and crosswalk	3,614	47
Amount corried formeral	<b>2</b> 00 004	1.,

Amount brought forward		
	869,894 12	
Blacksmith and wheelwright shop	3,306 39	
Barn expenses	2,968 40	
Labor on material	1,290 22	
Repairs on stone crushers	1,117 91	
Tools, implements, etc	958 34	
Steam rollers - repairs and supplies	816 70	
Repairs on buildings, highway yard	633 59	
Watering streets	<del>44</del> 9 10	
Superintendent's salary	446 ×6	
Horses, wagons, harnesses, etc	260 91	
Watchman at city yard	157 71	
Building driveways, etc	135 44	
Sundries	114 01	
Office expenses, city yard	74 06	
Car fares	40 00	
Fencing streets — material and labor	33 58	
Telephone lines	5 35	
Telephone Inico.		847.197.19
SIDEWALKS CURBED AND GUTTERS	PAVED.	
Algonquin street, from Crescent to Reservoir avenue Laban street, from Laurel Hill avenue to Merino		•
street	907-26	;
street	907-26 212-09	
		•
street	212 09	•
street	212 09	1,539
street	212 09 375 34	1,539
street	212 09 375 34 trer	1,539
street	212 09 375 34 trer	1,539
street	212 09 375 34 trer her	1,539 - \$84,242 (
street	212 09 375 34 trer her	1,589 - \$84,242 (
Bills deposited with the city treasurer collection from October 1 to Decem 31, 1904, inclusive, amounted to	212 09 375 34 trer her	1,589 - \$84,242 (
Rosedale street, from Messer to Ellery	212 00 375 34 trer her	1,589 - \$84,242 (
Rosedale street, from Messer to Ellery	212 00 375 34 arer ber 	1,539 - \$4,232   \$15,489
Bills deposited with the city treasure for collection from October 1 to Decem 31, 1904, inclusive, amounted to  As follows:  Labor and material	212 09 375 34 trer ber 	1,539 - \$4,232   \$15,489
Rosedale street, from Messer to Ellery	212 09 375 34 trer ber 	1,539 \$44,312 \$15,489
Bills deposited with the city treasure for collection from October 1 to Decem 31, 1904, inclusive, amounted to  As follows:  Labor and material	212 09 375 34 trer ber \$13,218 77	1,539 - 84,332   \$1,5,489
Rosedale street, from Messer to Ellery	212 09 375 34 trer her \$13,218 77 900 97 465 38	\$4,32 \$4,32 \$15,489
Bills deposited with the city treasure for collection from October 1 to Decem 31, 1904, inclusive, amounted to  As follows:  Labor and material.  Blacksmith and harness work for other departments.  Street sweepings.	212 09 375 34 trer her \$13,218 77 900 95 465 38	\$4,22 \$4,22 \$15,489
Bills deposited with the city treasure for collection from October 1 to Decem 31, 1904, inclusive, amounted to  As follows:  Labor and material.  Blacksmith and harness work for other departments.  Street sweepings.  Building driveways, etc.	212 09 375 34 trer ber 313,218 77 909 97 465 39 451 99 231 3	\$4,32° \$4,32° \$15,489° \$
street.  Rosedale street, from Messer to Ellery.  University avenue, from Elmgrove to Slater.  Bills deposited with the city treasure for collection from October 1 to Decem 31, 1904, inclusive, amounted to  As follows:  Labor and material.  Blacksmith and harness work for other departments.  Street sweepings.  Building driveways, etc.  Boarding horses for other departments.	212 09 375 34 trer ber \$13,218 77 909 56 465 39 231 3 105 00	\$4,38° (\$4,38° (\$6,489° (\$6,48
street.  Rosedale street, from Messer to Ellery. University avenue, from Elmgrove to Slater.  Bills deposited with the city treasure for collection from October 1 to Deceme 31, 1904, inclusive, amounted to  As follows:  Labor and material.  Blacksmith and harness work for other departments.  Street sweepings.  Building driveways, etc.  Boarding horses for other departments.  Use of steam rollers.	212 09 375 34 trer ber \$13,218 77 909 56 465 39 231 3 105 00	\$84,920 \$84,920 \$15,489 0
street.  Rosedale street, from Messer to Ellery. University avenue, from Elmgrove to Slater.  Bills deposited with the city treasure for collection from October 1 to Deceme 31, 1904, inclusive, amounted to  As follows:  Labor and material.  Blacksmith and harness work for other departments.  Street sweepings.  Building driveways, etc.  Boarding horses for other departments.  Use of steam rollers.  Manure from barn  Removing trees.	212 09 375 34 arer ber 313,218 77 900 95 465 33 451 95 231 3 105 00 33 00	\$84,282 0 \$84,282 0 \$15,489 0 0 0
street.  Rosedale street, from Messer to Ellery. University avenue, from Elmgrove to Slater.  Bills deposited with the city treasure for collection from October 1 to Deceme 31, 1904, inclusive, amounted to  As follows:  Labor and material.  Blacksmith and harness work for other departments.  Street sweepings.  Building driveways, etc.  Boarding horses for other departments.  Use of steam rollers.  Manure from barn	212 09 375 34 arer ber 313,218 77 900 95 465 33 451 95 231 3 105 00 33 00	\$4,489 0

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$13,599** 30

#### As follows:

Labor and material	\$11,547	<b>52</b>
Blacksmith and harness work for other depart-		
ments	615	63
Building driveways, etc	525	51
Street sweepings	. 515	30
Boarding horses for other departments	231	34
Manure from barn	70	00
Use of steam rollers	60	00
Removing trees	30	00
Empty oil barrels	4	<b>9</b> 0
	\$13,599	30

#### SIDEWALKS AND CURBING.

December 20th, the proposal of Crabtree & Havey to furnish and deliver on the city wharf 10,000 lineal feet of granite curbing at 50 cents per foot, was accepted.

Bills approved on account of sidewalks and curbing from October 1 to December 31, 1904, inclusive, amounted to . . . \$3,085 09

#### Charged as follows:

Concreting sidewalks	\$2,018 24
Repairing sidewalks and gutters	1,055 10
Granite curbing	11 75
-	\$3.085.09

Bills deposited with the city treasurer for collection from October 1 to December 31, 1904, inclusive, amounted to . . .

**\***689 82

#### As follows:

Granite curbing	\$678	32
Repairing sidewalks and gutters	11	50
-	2689	82

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$**672 33

#### As follows:

Granite curbing	<b>\$</b> 660 83
Repairing sidewalks and gutters	11 50
	\$672.33

# CITY ENGINEER.

Bills approved on account of the city engineer's department from October 1 to December 31, 1904, inclusive, amounted to

**\$12,330 17** 

# Charged as follows:

Salary — city engineer	\$1,125	00
Salaries of assistants	10,218	69
Salaries of clerks	808	43
Supplies — drawing material, etc	147	86
Telephone lines	23	49
Sundries	3	85
Car fares	2	20
Instruments and repairs		60
Meteorological instruments and repairs		05
•	\$12,330	17

#### BRIDGES.

October 12th, the proposal of Edward W. Everson to furnish and lay Uralde asphalt upon the roadway and sidewalks of the new Post Office bridge and portions of Burnside and

Exchange bridges, was accepted and a contract subsequently executed. Amount, \$5,100.00.

During the quarter, the following work was completed, namely:

No. of resolution. Date of approval.

411. Dec. 19, 1902, Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; river walls between Burnside and Exchange bridges.

June 21, 1904, Build culvert across Allens avenue at 232. outlet to Burgess cove, and the approaches thereto.

Bills approved on account of bridges from October 1 to December 31, 1904, inclusive,

amounted to **\$9,465** 38

# Charged as follows:

Acorn street bridge	<b>\$</b> 9	74
Barn expenses	123	77
Building at city yard		68
Crawford street bridge	18	95
Culvert across Allens avenue at Burgess cove—to		
build	498	02
Eagle street bridge	2	11
Exchange bridge	8	80
Horses, wagons, harnesses, etc	6	20
Lumber, hardware, etc	619	60
Manton avenue bridge	22	22
Point street bridge	202	06
Red bridge	113	94
Rent of keeper's house — Washington bridge	36	00
Repairs on city wharf	4,721	23
Salaries — Point street bridge	1,013	00
Salaries — Red bridge	537	14
Salaries — Washington bridge	561	14
Sundries	311	25
Telephone lines	2	68
Tools	90	32
Washington bridge	194	12
Washington row bridge	329	65
Weybosset bridge	42	76

Bills approved for account of building the river walls between the Burnside and Exchange bridges, from October 1 to December 31, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of

**\$**47,245 **20** 

# PUBLIC LIGHTS.

Bills approved on account of the publights from October 1 to December 31.196			
inclusive, amounted to	•	<b>\$</b> 70,771	86
Charged as follows:			
Arc lights	\$51,803	99	
Incandescent lights	12,663	86	
**	6,106		
Salaries	197	14	
	\$70,771	86	
Bills deposited with the city treasure for collection (for one gas-post), from Oc			
ber 1 to December 31, 1904, inclusi			
amounted to	•	<b>\$</b> 16	00
During the quarter, coupons from b	ills		
collected (for one gas-post), have been	re-		
turned by the city treasurer and receipt			
	i.cu		
for to the amount of	•	<b>*</b> 16	00

#### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from October 1 to December 31, 1904, inclusive, amounted to . . . .

\$5,511 84

# Charged as follows:

Salaries of commissioner and secretary	\$1,850 00
Salaries of office assistants	3,424 17
Office supplies	219 38
Telephone lines	
	\$5.511.84

# ABOLISHING GRADE CROSSING AT GROVE STREET, ETc.

October 5th, the proposal of Frank A. Gammino to furnish labor and material for raising building belonging to the estate of William H. Hall, in connection with the building of Barre street, for the sum of \$395.00, was accepted.

The following work, ordered by the board of aldermen, was in progress December 31, 1904:

Date of order.

June 7, 1904, Building retaining walls, etc., on Barre street.

Bills approved for account of building retaining walls, etc., on Barre street, from October 1 to December 31, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of . . .

**\$18,380** 83

# CONTINGENCIES.

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

23.00

As follows:

WALTER F. SLADE,

Commissioner.

\$84,242 07

The following work was in progress December 31, 1904:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

June 16, 1904, Barre street, from Ridge to Bell.
Oct. 20, "Laban street, from corner of Laurel Hill avenue to Merino street.

The following work, ordered by the board of aldermen and city council, had not commenced December 31, 1904, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

June	16.	1904.	Bell street, from Barre to Eden.
	15,	"	Nebraska street, from Eddy to Rugby.
Oct.	20,	"	Tiber street, from Ridge to Swiss.
**		"	Grand street, from Potters avenue to Huntington.
"	• •		Eastwood avenue, from Laurel Hill to Merino street.
Nov.	17,	"	Ninth street, from North Main to Highland avenue.
Dec.	15,	44	Everett avenue, from Arlington to Elmgrove

#### Classified as follows:

Repairs on unpaved streets	\$22,134	7:3
Crushed stone — material and labor	17,824	90
Cleaning streets	15,715	35
Removing snow and ice	5,664	37
Repairs on paved streets	4,940	30
Stone - paving and crosswalk	3,614	47
		-
Amount carried forward	\$69,894	12

sive, amounted to . . . . .

#### As follows:

Granite curbing		
•	\$689	82

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**8**672 33

#### As follows:

Granite curbing	\$660	83
Repairing sidewalks and gutters	11	50
<del>-</del>	9879	38

#### CITY ENGINEER.

Bills approved on account of the city engineer's department from October 1 to December 31, 1904, inclusive, amounted to

**\$12,330** 17

#### Charged as follows:

Salary — city engineer	\$1,125	00
Salaries of assistants	10,218	69
Salaries of clerks	808	43
Supplies — drawing material, etc	147	86
Telephone lines	23	49
Sundries	3	85
Car fares	2	20
Instruments and repairs		60
Meteorological instruments and repairs		05
•	\$12,330	17

#### BRIDGES.

October 12th, the proposal of Edward W. Everson to furnish and lay Uralde asphalt upon the roadway and sidewalks of the new Post Office bridge and portions of Burnside and

Exchange bridges, was accepted and a contract subsequently

executed. Amount, \$5,100.00. During the quarter, the following work was completed, namely: No. of resolution. Date of approval. 411. Dec. 19, 1902, Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; river walls between Burnside and Exchange bridges. June 21, 1904, Build culvert across Allens avenue at 232. outlet to Burgess cove, and the approaches thereto. Bills approved on account of bridges from October 1 to December 31, 1904, inclusive, amounted to **\$9,465** 38 Charged as follows: Acorn street bridge..... \$9 74 Barn expenses..... 123 77 Building at city yard..... 68 Crawford street bridge..... 18 95 Culvert across Allens avenue at Burgess cove-to 498 02 build.... Eagle street bridge..... 2 11 Exchange bridge..... 8 80 Horses, wagons, harnesses, etc..... 6 20 Lumber, hardware, etc..... 619 60 Manton avenue bridge..... 22 22 Point street bridge..... 202 06 Red bridge..... 113 94 Rent of keeper's house - Washington bridge..... 36 00

Repairs on city wharf.....

Salaries — Point street bridge.....

Salaries — Red bridge.....

Salaries - Washington bridge .....

Sundries....

Telephone lines.....

Washington bridge.....

Tools.....

4,721 23

1,013 00

537 14

561 14

311 25

2 68

90 32

194 12

Bills approved for account of building the river walls between the Burnside and Exchange bridges, from October 1 to December 31, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of

\$47,245 20

**\$**16 00

# PUBLIC LIGHTS.

Bills approved on acco	unt o	of the	e pub	olic		
lights from October 1 to I	)ecen	aber 3	1, 19	04,		
inclusive, amounted to	•	•	•	•	\$70,771	86

# Charged as follows:

Arc lights	\$51,803	99
Incandescent lights	12,663	86
Welsbach lights	6,106	87
Salaries	197	14
	\$70,771	 86

Bills deposited with the city treasurer for collection (for one gas-post), from October 1 to December 31, 1904, inclusive,

amounted to . . **\$16 00** 

During the quarter, coupons from bills collected (for one gas-post), have been returned by the city treasurer and receipted for to the amount of . . .

#### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from October 1 to December 31, 1904, inclusive, amounted to . . . .

**\$**5,511 84

# Charged as follows:

Salaries of commissioner and secretary	\$1,850	00
Salaries of office assistants		
Office supplies		38
Telephone lines	18	29
	<b>Q</b> K K11	9.1

# ABOLISHING GRADE CROSSING AT GROVE STREET, Etc.

October 5th, the proposal of Frank A. Gammino to furnish labor and material for raising building belonging to the estate of William H. Hall, in connection with the building of Barre street, for the sum of \$395.00, was accepted.

The following work, ordered by the board of aldermen, was in progress December 31, 1904:

Date of order.

June 7, 1904, Building retaining walls, etc., on Barre street.

Bills approved for account of building retaining walls, etc., on Barre street, from October 1 to December 31, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of . . .

**\$18,380** 83

3.00

# CONTINGENCIES.

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

As follows:

Inspection of electric wires...... \$3 00

WALTER F. SLADE,

Commissioner,



# EIGHTY-NINTH QUARTERLY REPORT

OF THE

# Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING MARCH 31, 1905.



The Providence Press:

SNOW & FARNHAM, CITY PRINTERS,

63 Washington Street.

1905.

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ASTOR, LENOX AND
YILDER FOUNDATIONS.
1905

# REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., April 1, 1905.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-ninth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending March 31, 1905.

#### WATER WORKS.

January 30th, the proposal of Fuller Iron Works to furnish and deliver at the city yard the special castings for the water and sewer departments for the year 1905, was accepted and a contract subsequently executed.

The proposal of Builders Iron Foundry to furnish and deliver at Pettaconset the special castings for a 42-inch force main at 3\frac{3}{4} cents per pound, including patterns, was accepted and a contract subsequently executed.

February 27th, the proposal of Edward W. Everson to cart 42-inch cast iron water pipe from the city yard to the force main line between Pettaconset and Sockanosset, at 90 cents per net ton, was accepted and a contract subsequently executed.

March 7th, the proposal of James H. Tower to furnish a steel crane with trolley and hoist for the sum of \$387.50 was accepted.

March 17th, the proposal of the Pettaconset Construction Company to lay the 42-inch force main at Pettaconset, was accepted and a contract executed later. Amount \$8,935.00.

March 18th, a contract was executed with the Pettaconset Construction Company for building two additional filter beds at Pettaconset, under the terms and conditions of the original contract dated July 15, 1902.

The average daily consumption of water during the last quarter was 14,230,265 gallons.

Water pipes were laid during the quarter as follows:

12-гисн.	
In Academy avenue	171.06 feet.
G-inch.	
In Berkley and Fern streets and Academy avenue	514,32 feet
	6 <b>8</b> 9.38 feet.
or 130 + mile	

Statement of sizes and lengths of pipe laid since the commencement of the work:

Tr. a.a.l	1 402 021 25 40-1
6-inch	1,250,548.85 feet.
8-inch	•
10-inch	- •
12-inch	106,246.95 feet.
16-inch	
20-inch	,
24-inch	43,838.61 feet
30-inch	61,328.30 feet
36-inch	10,084.00 feet.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch	4,297.46 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
	29,517.59 feet.
or, $5.59 + \text{miles}$ .	

Three fire hydrants have been set during the quarter, one in each of the following locations:

Regent avenue, north side, 6.5 feet east of east building line of Lisbon

Walcott street, east side, 158 feet south of south building line of Allston street.

West Park street, north side, 234 feet east of east building line of Valley street.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and thirty-three — nineteen hundred and twenty-seven flush, and one hundred and six post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, one hundred and forty-nine water meters were set, of which number forty-one were to replace other meters. The use of four meters was discontinued.

The following meters were in use at the close of the quarter:

					SIZE.				- 1	1
KIND.	₽-in.	1-in.	1-in.	1 <u>4</u> -in.	2-in.	3-in.	4-in.	6-in,	8-la.	Total
Ball & Fitts	1,952	408	97	11	4					2,672
Ball & Fitts, rotary			- 4	6		2	1			23
Crown	9,568	1,148	338	146	46	27	25	1		925,12
Empire	1,155	153	65	45	14	1	1	*****	*****	1,424
Fales, Jenks & Sons		Leaving	1	dan						1
Gem					13	29	18	3	*14.11	6
Thomson	4,614	424	75	54	22	7	7	2		5,265
Frident	102		1				*****			100
Venturi	*****		24.99 ha			ooir			- 10	1
Worthington	1				1				W 7 m m d	
	17,392	2,133	581	262	100	66	52	6		1 20,58

One hundred and fifteen plumber's licenses were issued during the quarter, all of which expire December 31, 1905.

Four hundred and ninty-six permits to do plumbing work were issued during the quarter.

Fifty-five applications for water were made during the quarter, making the total number twenty-six thousand seven hundred and seventy.

The number of new service stops opened during the quarter was fifty-five.

The total number of service stops opened to March 31, 1905, inclusive, was twenty-six thousand and eighty-nine. The number in actual use March 31, 1905, was twenty-three thousand eight hundred and ninety-seven.

### Classified as follows:

# PETTACONSET PUMPING STATION. Laying 42-inch force main from Pettaconset to

Coal and wood       4,560 49         Sundries       991 50         Firemen       833 70         Engineers       721 31         Repairs on boilers       671 43         Superintendence       415 07         Corliss pumping engine and house       328 04         Labor on fuel       328 02         Real estate       321 64         Cornish engine house       201 36         Ooil, waste and packing       184 03         Worthington high-duty engine       189 55         Barn expenses       45 27         Care of grounds       43 60         Lights       2 50         Sockanosset Reservoire         Watchman       \$182 00         Sundries       28 00         Hope Pumping Station       210 0         Engineers       \$383 85         Firemen       366 50         Nagle pumping engine       108 29         Lights       72 90         Repairs on boilers       51 94         Sundries       33 51         Oil, waste and packing       4 51         Hope Reservoire         Watchman       \$204 75         Sundries       14 00         Fru	Laying 42-inch force main from Pettaconset to		
19,259 59   1	<del>-</del>	<b>\$20,34</b> 5 09	
Installation of sand filtration plant at Pettaconset	Allis Chalmers high-duty engine, to furnish and		
Coal and wood       4,560 49         Sundries       991 50         Firemen       833 70         Engineers       721 31         Repairs on boilers       671 43         Superintendence       415 07         Corliss pumping engine and house       328 04         Labor on fuel       328 02         Real estate       321 64         Cornish engine house       201 36         Ooil, waste and packing       184 03         Worthington high-duty engine       189 55         Barn expenses       45 27         Care of grounds       43 60         Lights       2 50         Sockanosset Reservoire         Watchman       \$182 00         Sundries       28 00         Hope Pumping Station       210 0         Engineers       \$383 85         Firemen       366 50         Nagle pumping engine       108 29         Lights       72 90         Repairs on boilers       51 94         Sundries       33 51         Oil, waste and packing       4 51         Hope Reservoire         Watchman       \$204 75         Sundries       14 00         Fru	erect	19 <b>,2</b> 59 59	
Sundries	Installation of sand filtration plant at Pettaconset.	<b>17,009</b> 13	
Firemen       833 70         Engineers       721 31         Repairs on boilers       671 43         Superintendence       415 07         Corliss pumping engine and house       328 04         Labor on fuel       326 20         Real estate       321 64         Cornish engine house       201 36         Oil, waste and packing       184 03         Worthington high-duty engine       159 55         Barn expenses       43 60         Lighte       2 50         Sockanosset Reservoirs         Watchman       \$182 00         Sundries       28 00         210 0       20         Hope Pumping Station         Engineers       \$383 85         Firemen       366 50         Nagle pumping engine       214 59         Holly pumping engine       108 29         Lights       72 90         Repairs on boilers       51 94         Sundries       33 51         Oil, waste and packing       4 51         Hope Reservoir         Watchman       \$204 75         Sundries       14 00         Fruit Hill Reservoir         Watchman	Coal and wood	4,560 49	
Engineers	Sundries	991 50	
Repairs on boilers.       671 43         Superintendence       415 07         Corliss pumping engine and house.       328 04         Labor on fuel.       326 20         Real estate.       321 64         Cornish engine house.       201 36         Oil, waste and packing.       184 03         Worthington high-duty engine.       159 55         Barn expenses.       45 27         Care of grounds.       43 60         Lights.       2 80         SOCKANOSSET RESERVOIR.         Watchman.       \$182 00         Sundries.       28 00         HOPE PUMPING STATION.         Engineers.       \$383 85         Firemen.       366 50         Nagle pumping engine.       214 59         Holly pumping engine.       108 29         Lights.       72 90         Repairs on boilers.       51 94         Sundries.       33 51         Oil, waste and packing.       4 51         HOPE RESERVOIR.         Watchman.       \$204 75         Sundries.       14 00         FRUIT HILL RESERVOIR.         Watchman.       \$204 75         Sundries.       154 95 </td <td>Firemen</td> <td>833 70</td> <td></td>	Firemen	833 70	
Superintendence       415 07         Corliss pumping engine and house       328 04         Labor on fuel       326 20         Real estate       321 64         Cornish engine house       201 36         Oil, waste and packing       184 03         Worthington high-duty engine       159 55         Barn expenses       45 27         Care of grounds       43 60         Lights       2 50         SOCKANOSSET RESERVOIR         Watchman       \$182 00         Sundries       28 00         HOPE PUMPING STATION         Engineers       \$383 85         Firemen       366 50         Nagle pumping engine       214 59         Holly pumping engine       214 59         Holly pumping engine       108 29         Lights       72 90         Repairs on boilers       51 94         Sundries       33 51         Oil, waste and packing       4 51         HOPE RESERVOIR         Watchman       \$204 75         Sundries       14 00         FRUIT HILL RESERVOIR         Watchman       \$204 75         Sundries       154 95	Engineers	<b>72</b> 1 31	•
Corliss pumping engine and house.       328 04         Labor on fuel.       326 20         Real estate.       321 64         Cornish engine house.       201 36         Oil, waste and packing.       184 03         Worthington high-duty engine.       159 55         Barn expenses.       45 27         Care of grounds.       43 60         Lights.       2 50         SOCKANOSSET RESERVOIR.         Watchman.       \$182 00         Sundries.       28 00         HOPE PUMPING STATION.         Engineers.       \$383 85         Firemen.       366 50         Nagle pumping engine.       214 59         Holly pumping engine.       108 29         Lights.       72 90         Repairs on boilers.       51 94         Sundries.       33 51         Oil, waste and packing.       4 51         HOPE RESERVOIR.         Watchman.       \$204 75         Sundries.       14 00         FRUIT HILL RESERVOIR.         Watchman.       \$204 75         Sundries.       154 95         359 7	Repairs on boilers	671 43	
Labor on fuel.       326 20         Real estate       321 64         Cornish engine house       201 36         Oil, waste and packing       184 03         Worthington high-duty engine       159 55         Barn expenses       45 27         Care of grounds       43 60         Lights       2 50         SOCKANOSSET RESERVOIR.         Watchman       \$182 00         Sundries       28 00         210 0         HOPE PUMPING STATION.         Engineers       \$383 85         Firemen       366 50         Nagle pumping engine       214 59         Holly pumping engine       108 29         Lights       72 90         Repairs on boilers       51 94         Sundries       33 51         Oil, waste and packing       4 51         HOPE RESERVOIR         Watchman       \$204 75         Sundries       14 00         218 7         Fruit Hill Reservoir         Watchman       \$204 75         Sundries       154 95         Sundries       359 7	Superintendence	415 07	
Real estate	Corliss pumping engine and house	328 04	
Cornish engine house       201 36         Oil, waste and packing       184 03         Worthington high-duty engine       159 55         Barn expenses       45 27         Care of grounds       43 60         Lights       2 50         SOCKANOSSET RESERVOIR.         Watchman       \$182 00         Sundries       28 00         210 0       20         HOPE PUMPING STATION         Engineers       \$383 85         Firemen       366 50         Nagle pumping engine       214 59         Holly pumping engine       108 29         Lights       72 90         Repairs on boilers       51 94         Sundries       33 51         Oil, waste and packing       4 51         HOPE RESERVOIR         Watchman       \$204 75         Sundries       14 00         218 7         FRUIT HILL RESERVOIR         Watchman       \$204 75         Sundries       154 95         Sundries       154 95	Labor on fuel	326 20	
Oil, waste and packing.       184 03         Worthington high-duty engine.       159 55         Barn expenses.       45 27         Care of grounds.       43 60         Lights.       2 50         SOCKANOSSET RESERVOIR.         Watchman.       \$182 00         Sundries.       28 00         210 0       20 0         HOPE PUMPING STATION.         Engineers.       \$383 85         Firemen.       366 50         Nagle pumping engine.       214 59         Holly pumping engine.       108 29         Lights.       72 90         Repairs on boilers.       51 94         Sundries.       33 51         Oil, waste and packing.       4 51         HOPE RESERVOIR.         Watchman.       \$204 75         Sundries.       14 00         218 7         FRUIT HILL RESERVOIR.         Watchman.       \$204 75         Sundries.       154 95         Sundries.       154 95	Real estate	<b>321</b> 64	
Worthington high-duty engine       159 55         Barn expenses       45 27         Care of grounds       43 60         Lights       2 50         SOCKANOSSET RESERVOIR         Watchman       \$182 00         Sundries       28 00         HOPE PUMPING STATION         Engineers       \$383 85         Firemen       366 50         Nagle pumping engine       214 59         Holly pumping engine       108 29         Lights       72 90         Repairs on boilers       51 94         Sundries       33 51         Oil, waste and packing       4 51         HOFE RESERVOIR         Watchman       \$204 75         Sundries       14 00         FRUIT HILL RESERVOIR         Watchman       \$204 75         Sundries       154 95         359 7		201 36	
Barn expenses.       45 27         Care of grounds.       43 60         Lights.       2 50         \$66,519 8         SOCKANOSSET RESERVOIR.         Watchman       \$182 00         SUNDATION.         Engineers.       \$383 85         Firemen       366 50         Nagle pumping engine.       214 59         Holly pumping engine.       108 29         Lights.       72 90         Repairs on boilers.       51 94         Sundries.       33 51         Oil, waste and packing.       4 51         HOPE RESERVOIR.         Watchman.       \$204 75         Sundries.       14 00         FRUIT HILL RESERVOIR.         Watchman.       \$204 75         Sundries.       154 95         359 7	Oil, waste and packing	184 03	
Care of grounds       43 60         Lights       2 50         SOCKANOSSET RESERVOIR.         Watchman       \$182 00         Sundries       28 00         HOPE PUMPING STATION.         Engineers       \$383 85         Firemen       366 50         Nagle pumping engine       214 59         Holly pumping engine       108 29         Lights       72 90         Repairs on boilers       51 94         Sundries       33 51         Oil, waste and packing       4 51         HOPE RESERVOIR         Watchman       \$204 75         Sundries       14 00         FRUIT HILL RESERVOIR         Watchman       \$204 75         Sundries       154 95         359 7	Worthington high-duty engine	159 55	
Sockanosset Reservoir   Sister of State of Sta	Barn expenses	45 27	
SOCKANOSSET RESERVOIR.   \$182 00	Care of grounds	43 60	
SOCKANOSSET RESERVOIR.   \$182 00	Lights	2 50	
Watchman	•		<b>\$66</b> ,519 50
Watchman	SOCKANOSSET RESERVOIR		
Hope Pumping Station   S		<b>\$100.00</b>	
## Hope Pumping Station.    Engineers		-	
Hope Pumping Station.   \$383 85   Firemen	Sunaries	28 00	210 00
Engineers \$383 85 Firemen 366 50 Nagle pumping engine 214 59 Holly pumping engine 108 29 Lights 72 90 Repairs on boilers 51 94 Sundries 33 51 Oil, waste and packing 451  HOPE RESERVOIR  Watchman \$204 75 Sundries 214 00  FRUIT HILL RESERVOIR  Watchman \$204 75 Sundries 154 95 Sundries 154 95			
Firemen	HOPE PUMPING STATION.		
Nagle pumping engine	Engineers	<b>\$</b> 383 85	
Holly pumping engine	Firemen	366 50	
Holly pumping engine	Nagle pumping engine	214 59	
Lights		108 29	
Repairs on boilers		72 90	
Sundries     33 51       Oil, waste and packing     4 51       HOFE RESERVOIR.       Watchman     \$204 75       Sundries     14 00       FRUIT HILL RESERVOIR.       Watchman     \$204 75       Sundries     154 95       Sundries     359 7	· ·	51 94	
Oil, waste and packing		33 51	
## Table 1		4 51	
Watchman         \$204 75           Sundries         14 00           FRUIT HILL RESERVOIR.           Watchman         \$204 75           Sundries         154 95           359 7			1,236 09
Watchman         \$204 75           Sundries         14 00           FRUIT HILL RESERVOIR.           Watchman         \$204 75           Sundries         154 95           359 7	••		
Sundries			
FRUIT HILL RESERVOIR.  Watchinan		-	
FRUIT HILL RESERVOIR.  Watchinan	Sundries	14 00	010 =
Watchman       \$204 75         Sundries       154 95	•		218 78
Watchman       \$204 75         Sundries       154 95	Proceedings of the control of the co		
Sundries 154 95 359 7			
359 7		-	
<del></del>	Sundries	154 95	950 74
Amount carried forward \$68.544 (	•		359 70
	Amount carried forward		\$68,544 04

Amount brought forward		<b>968</b> ,544 0
Meter Department.		
Water meters	\$2,620 97	
Setting and repairing meters	1,496 66	
		4,117 6
PIPE LINE AND SERVICE STO	P8.	
Repairs	\$2,506 85	
nspection of pipe line and services	1,382 47	
uperintendence — salaries	874 25	
		4,763 0
PIPE YARD.		
ast iron water pipe	<b>\$</b> 6, <b>4</b> 15 18	
ire hydrants, boxes and covers	2,694 92	
aying water pipe	1,904 27	
'ools	1,472 11	
top valves	1,275 00	
aps and stopsaying service pipe	951 88 477 33	
pecial castings	471 51	
abor on and carting pipe	164 25	
ipe yard, office expenses	61 28	
Sepairs on pipe yard buildings	28	
		15,888
MISCELLANEOUS.		
hawing out water pipe	\$6,312 48	
lerks' and inspectors' salaries	1,589 40	
Barn expenses	662 00	
revention of defilement of the Pawtuxet	549 99	
Iorses, wagons, harnesses, etc.	160 43	
'elephone lines	122 68	
undries	55 48	
ar fares	40 00	
ublic drinking fountains and troughs	39 73 2 30	
-		9,534
		\$102,847
	31,	-
The total expenditures to March 905, inclusive, was		67,859

The value of the water works system				
January 1, 1905, as estimated by the city				
engineer, was as follows:				
Pettaconset pumping station \$34	0.694	00		
	3,654			
	9,014			
Main lines and distribution pipes				
• •	5,975			
Tools and supplies	5,113	01		
		_	\$3,932,06	3 03
Bills deposited with the city treasurer				
for collection from January 1 to March				
31, 1905, inclusive, amounted to		<b>\$</b> 1	47,478	79
oi, 1000, metasive, amounted to		d).X	<b>X1,X10</b>	
As follows:				
Water \$44	2.434	18		
	2,047			
	1,413			
Old lead and dross	595	90		
Labor and material, laying services, etc	521	33		
Rent of real estate	201	00		
Penalties	136	00		
Sale of old metal	122	24		
Permanently closing service stops	5	00		
Blue prints of water distribution	2	00		
			<b>\$44</b> 7,47	8 72
75 ( ) ( ) ( ) ( ) ( ) ( )				
During the quarter, coupons from bills				
collected have been returned by the city				
· · · · · · · · · · · · · · · · · · ·		<b>4</b> 1	26 001	ΛG
treasurer and receipted for to the amount of		ФĄ	36,991	VV
As follows:				

### As follows:

Water	\$431,005	39		
Water meters	2,145	75		
Setting and repairing meters	1,788	35		
Labor and material, laying services, etc	620	33		
Old lead and dross		90		
Sale of old metals	423	61		
Rent of real estate	191	00		
Penalties	136	00		
Repairs on pipe line	77	73		
Permanently closing service stops	5	00		
Blue prints of water distribution	2	00		
2			<b>\$4</b> 36,991	06

### SEWERS.

During the quarter ending March 31, 1905, one hundred and twelve permits were issued to drain-layers — thirty-four for new work and seventy-eight for extensions and repairs of drains.

One hundred and twenty-nine drain-layer's licenses were issued during the quarter, all of which expire December 31, 1905.

January 19th, the proposal of the American and British Manufacturing Company to furnish and deliver at the Ernest street station two cast iron heads for surface condensers for the sum of \$250.00 was accepted.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

Reservoir avenue, west side, from Creacent street to Algon-	
quin	\$1,307 11
West Park and Bath streets	7,140 09
Algonquin street, from Crescent to Holmes	2,130 42
Washington avenue, from Virginia to Eddy street	2,661 53
Elton street, from a point 100 feet east of Taber avenue to	
Elmgrove	739 40
Fairview and Pemberton streets	1,563 27
Vandewater street, from Douglas avenue to Branch	7,110 56
Nebraska street, from near Rugby to Eddy	690 60
Veazie street, from near Douglas avenue to Branch	4,318 33
Everett avenue, from Arlington to Elmgrove	2,763 18
	\$30,494 45

March 27th, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials.]

### To Frederick E. Shaw.

No. of resolution. Date of approval.

- 68. Feb. 7, 1905, Pleasant Valley Division, Section 31.
- 69. " " Elmdale avenue, Cleveland and White-hall streets and Eastwood avenue.
- 71. " " Reynolds avenue, Wadsworth and Grand streets.
- 72. " " Linton and Robin streets ..

### FRANK A. GAMMINO.

61. Feb. 7, 1905, Right of way from Valley street to Woonasquatucket river.

### TIMOTHY F. LYONS.

70. Feb. 7, 1905, Narragansett avenue, from city line northerly to point 600 feet north of Roger Williams avenue, and in right of way easterly to main trunk sewer.

Work upon the following sewers was in progress at the close of the quarter, namely:

No. of resolution. Date of approval.

- 53. Feb. 2, 1904, Admiral street, from Hillwood to end of present sewer in Admiral.
- 330. Oct. 7, " Douglas avenue, from Farmer street to Vandewater.
  - 60. Feb. 2, 1904, Alverson, Eastwood, Laurel Hill and Hartford avenues.
- 201. June 7, 1904, Barre street, from Grove to about 1,300
  feet northerly; also westerly through
  right of way across tracks of N. Y.,
  N. H. & H. R. R. Company to Harris
  avenue.

Work upon the following sewers, completing the work ordered by the city council, had not commenced March 31, 1905, namely:

Yf	resolution		. <b></b>			
			-	Reservoir avenue, Adelaide, and in A Reservoir westerly N. Y., N. H. & H. main trunk sewer.	delaide acro <b>ss</b>	avenue, from land of the
61.	Feb.	7,	1905,	Right of way fro Woonasquatucket r		ley street to
68.	٠.	٠.	• 6	Pleasant Valley D		Section 31.
69.	••	• •	••	Elmdale avenue, C hall street and Eas	levelan	d and White
70.	••	••	••	Narragansett aven northerly to point Roger Williams av- way easterly to th	600 . enue, ai	feet north o ud in right o
71.	••	••	••	Reynolds avenue, W		
72.	••	••	••	Linton and Robin	streets.	
				ls approved on acco 31, 1905, inclusive,		sewers from
For c	onstru	ctio	n,		٠	\$9,891 93
Ch	arged	as f	ollows	:		
						- 55 - 55
	g cemen					
						(M)
				6 . If the		17
				from Hillwood to end or iral		80
				wood, Laurel Hill and		
					5 1.00	

Amount carried forward.....

5,427,76

\$9,808 11

Amount brought forward	\$9,808	11
Sewer in Barre street, from Grove to about 1,300 feet northerly; also westerly through right of	,	
way across tracks of N. Y., N. H. & H. R. R.		
Company to Harris avenue	14	00
Sewer in Douglas avenue, from Farmer street to		
Vandewater	31	50
Sewer in Thayer, Manning and Brook streets	38	31
<del>-</del>		<b>\$</b> 9,891 92
For maintenance,	•	<b>\$25,422 02</b>
Classified as follows:		
Cleaning basius and sewers	\$6,141	10
Repairing basins and sewers	1,153	26
Horses, wagons, harnesses, etc	855	32
Cleaning and repairing old drains	847	
Inspection of connections	639	
Tools	548	
Barn expenses	442	
Salary, superintendent	442	
Office expenses		21
Cleaning private connections		00
Telephone lines		93
Sundries		70 00
Repairs on buildings, sewer maintenance yard	10	47
Repairs on buildings, sewer manivenance valu		•
ERNEST STREET STATION.		
Coal and wood	1,302	34
Repairs on engines	1,265	97
Engineers	725	26
Cleaning screens	578	
Firemen	393	
Cleaning and repairing pumps	135	
Supplies		45
Care of grounds		78
Lights		90
Care of buildings	12	83
Repairs on buildings		78
SEWAGE PRECIPITATION TANK	8.	
Chemicals	4,728	22
Labor in sludge disposal	2,099	34
	1,292	40
Labor on sewage precipitation	-,	

Electrical power			
Miscellaneous supplies.       353 19         Repairs on buildings.       281 69         Fuel.       276 30         Lights.       36 18         Repairs on machinery.       25 79         \$25,422 02         The net expenditure for construction of sewers to March 31, 1905, inclusive, was.       \$7,654,679         The net expenditure for maintenance of sewers to March 31, 1905, inclusive, was.       \$1,182,336         Bills deposited with the city treasurer for collection from January 1 to March 31, 1905, inclusive, amounted to       \$566 7         As follows:       \$25         Cleaning private connections       \$53 25         Miscellaneous work.       11 15         Filling cisterns, etc.       9 30         Sewer material.       489 38         Testing cement       3 70         \$506 78         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$66 00         As follows:       \$66 00         Cleaning private connections       \$66 00         Miscellaneous work       49 15         Filling cisterns, etc.       9 30         Sewer material.       489 38         Testing cement.       3 70		-	
Repairs on buildings.       281 69         Fuel.       276 30         Lights       36 18         Repairs on machinery.       25 79         \$25,422 03         The net expenditure for construction of sewers to March 31, 1905, inclusive, was.         The net expenditure for maintenance of sewers to March 31, 1905, inclusive, was.       \$1,182,333         Bills deposited with the city treasurer for collection from January 1 to March 31, 1905, inclusive, amounted to .       \$566 7         As follows:       \$53 25         Cleaning private connections       \$53 25         Miscellaneous work       11 15         Filling cisterns, etc       9 30         Sewer material       489 38         Testing cement       3 70         Soft 78         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of .       \$66 00         As follows:       \$66 00         Cleaning private connections       \$66 00         Miscellaneous work       49 15         Filling cisterns, etc       9 30         Sewer material       489 38         Testing cement       3 70	<u> </u>		
Fuel			
As follows:    Cleaning private connections work   11 15			
Repairs on machinery			
#25,422 03  The net expenditure for construction of sewers to March 31, 1905, inclusive, was	••		
The net expenditure for construction of sewers to March 31, 1905, inclusive, was	—		
### The net expenditure for maintenance of sewers to March	•	25,422 02	
Bills deposited with the city treasurer for collection from January 1 to March 31, 1905, inclusive, amounted to			\$7,654,679 3
for collection from January 1 to March 31, 1905, inclusive, amounted to			\$1,182,393 3
for collection from January 1 to March 31, 1905, inclusive, amounted to			
As follows:  Cleaning private connections			
As follows:  Cleaning private connections			
Cleaning private connections   \$53   25	31, 1905, inclusive, amounted to		<b>\$</b> 566 7
Cleaning private connections   \$53   25			
Miscellaneous work       11 15         Filling cisterns, etc.       9 30         Sewer material       489 38         Testing cement       3 70         \$506 78         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of	As follows:		
Miscellaneous work       11 15         Filling cisterns, etc.       9 30         Sewer material       489 38         Testing cement       3 70         \$506 78         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of	Cleaning private connections	<b>\$</b> 53 25	
Filling cisterns, etc.       9 30         Sewer material.       489 38         Testing cement       3 70         \$506 78         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of		-	
Testing cement	Filling cisterns, etc		
During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of	Sewer material	489 38	
During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of	Testing cement	3 70	
collected have been returned by the city           treasurer and receipted for to the amount         \$617.5           As follows:         \$66.00           Cleaning private connections         \$66.00           Miscellaneous work         49.15           Filling cisterns, etc         9.30           Sewer material         489.38           Testing cement         3.70	<del></del>	\$506 78	
collected have been returned by the city           treasurer and receipted for to the amount         \$617.5           As follows:         \$66.00           Cleaning private connections         \$66.00           Miscellaneous work         49.15           Filling cisterns, etc         9.30           Sewer material         489.38           Testing cement         3.70	During the quarter coupons from bill	s	
treasurer and receipted for to the amount of	9 .		
of	•		
As follows:       \$66 00         Miscellaneous work       49 15         Filling cisterns, etc       9 30         Sewer material       489 38         Testing cement       3 70	•	•	a :
Cleaning private connections         \$66 00           Miscellaneous work         49 15           Filling cisterns, etc         9 30           Sewer material         489 38           Testing cement         3 70	oi	•	<b>春</b> 0110
Cleaning private connections         \$66 00           Miscellaneous work         49 15           Filling cisterns, etc         9 30           Sewer material         489 38           Testing cement         3 70			
Miscellaneous work       49 15         Filling cisterns, etc.       9 30         Sewer material.       489 38         Testing cement.       3 70	As follows:		
Miscellaneous work       49 15         Filling cisterns, etc.       9 30         Sewer material.       489 38         Testing cement.       3 70	Cleaning private connections	\$66 00	
Sewer material	Miscellaneous work	49 15	
Sewer material	Filling cisterns, etc	9 30	
·	Sewer material	489 38	
	Testing cement	3 70	
		<b>\$617</b> 53	

### HIGHWAYS.

One permit to open street was issued during the quarter.

February 6th, statements were prepared of the cost of curbstones set, ascertained by the Commissioner and certified to the board of aldermen for approval, as follows:

Algonquin street, from Crescent to Reservoir avenue	\$1,407	73
Bath street, from Orms to Calverley	1,709	23
Cole avenue, from Lloyd to Irving	550	77
Merino avenue, from Manton to the bridge	1,471	60
Elton street, from Taber avenue to Elmgrove	596	28
Fairview street, from Carleton to Pemberton	734	08
Hilton street, from Willard avenue to Bogman street	698	41
Rosedale street, from Messer to Ellery	1,140	58
Seventh street, from Summit avenue to North Main street	1,454	16
Troy street, from Westminster to Oak	779	94
Thorne street, from Roanoke to Belmont avenue	285	80
University avenue, from Elmgrove to Slater	2,023	59
Wayland avenue, from Lloyd to Irving	550	44
•	<b>@</b> 12.400	C1

\$13,402 61

February 11th, the proposal of the Taylor Iron and Steel Company to furnish certain parts of a screen for the stone crusher for the sum of \$823.20 was accepted.

The following work was in progress March 31, 1905:

SIDEWALKS CURBED AND GUTTERS PAVED. Date of order.

- June 16, 1904, Barre street, from Ridge to Bell.
- Oct. 20, " Laban street, from corner of Laurel Hill avenue to Merino street.
- Nov. 17, " Ninth street, from North Main to Highland avenue.
- Mch. 16, 1905, Reservoir avenue, west side, from Algonquin street to Crescent.

The following work, ordered by the board of aldermen and city council, had not commenced March 31, 1905, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

June 16, 1904, Bell street, from Barre to Eden.

Sept. 15, " Nebraska street, from Eddy to Rugby.

Oct. 20, " Tiber street, from Ridge to Swiss.
" " Grand street, from Potters avenue to Hunt-

ington.
" " Eastwood avenue, from Laurel Hill to Merino

street.

Dec. 15, " Everett avenue, from Arlington to Elmgrove.

Mch. 16, 1905, Elmdale avenue, from Whitehall street to

Webster avenue,

" " Whitehall street, from Wallace to Union

avenue.

" " Moulton street, from Westminster to Bewet.

PAVE WITH GRANITE BLOCKS.

Feb. 7, 1905, Federal street, from Broadway to Bradford street.

GRADE AND PUT IN SAFE CONDITION.

March 16, 1905, Charles street, from Hagan to the city line.

### Classified as follows:

Removing snow and ice	\$13,450 05
Crushed stone-material and labor	9,297 39
Cleaning streets	3,783_03
Blacksmith and wheelwright shop	3,147 90
Steam rollers -repairs and supplies	2,933 80
Annual manial formant	£ 20 £10 17

	\$32,612 1	7	
Amount brought forward	2,703 7		
Barn expenses	2,650 40		
Repairs on stone crushers	2,152 40		
Labor on material	1,718 2		
Horses, wagons, harnesses, etc	1,629 1	3	
Tools, implements, etc	966 5	7	
Stone—paving and crosswalk	780 2	3	
Superintendent's salary	408 00	)	
Watchman at city yard	144 0	)	
Office expenses, city yard	69 49	)	
Sundries	37 89	<del>)</del>	
Repairs on buildings, highway yard	19 78	-	
Repairs on paved streets	13 70		
Telephone lines	5 60	) - <b>\$4</b> 5 <b>,9</b> 1	1 54
NEW WORK — BUILDING AND	Rebuit	J)-	
ing Streets, Etc.	TUBIN II.		
Sidewalks Curbed and Gutters	PAVED		
Eastwood avenue, from Laurel Hill to Merino street	\$80 10		
Everett avenue, from Arlington to Elmgrove	109 08		
Merino street	13 80		
Nebraska street, from Eddy to Rugby	35 45		
Ninth street, from North Main to Highland avenue	95 05	<b>S</b>	
Reservoir avenue, west side, from Algonquin street			
	55 55		
to Crescent			9 00
to Crescent		. 38	
Bills deposited with the city treasur	 er		
_		. 38	
Bills deposited with the city treasur for collection from January 1 to Marc		. 38	0 54
Bills deposited with the city treasur for collection from January 1 to Marc 31, 1905, inclusive, amounted to .		\$46,30	0 54
Bills deposited with the city treasur for collection from January 1 to Marc 31, 1905, inclusive, amounted to .  As follows:		38 \$46,30 \$3,736	0 54
Bills deposited with the city treasur for collection from January 1 to Marc 31, 1905, inclusive, amounted to .  As follows:	eh . \$3,085 50	38 846,30 \$3,736	0 54
Bills deposited with the city treasur for collection from January 1 to Marc 31, 1905, inclusive, amounted to .  As follows:  Labor and material	eh ·	38 846,30 \$3,736	0 54
Bills deposited with the city treasur for collection from January 1 to Marc 31, 1905, inclusive, amounted to  As follows:  Labor and material	s3,085 50 246 28	38 \$46,30 \$3,736	0 54
Bills deposited with the city treasur for collection from January 1 to Marc 31, 1905, inclusive, amounted to  As follows:  Labor and material	s3,085 50 246 28 234 45	38 \$46,30 \$3,736	0 54
Bills deposited with the city treasur for collection from January 1 to Marc 31, 1905, inclusive, amounted to  As follows:  Labor and material	s3,085 50 246 28 234 45	38 \$46,30 \$3,736	0 54
Bills deposited with the city treasure for collection from January 1 to Marc 31, 1905, inclusive, amounted to .  As follows:  Labor and material	\$3,085 50 246 28 234 48 70 00	38 846,30	0 54
Bills deposited with the city treasur for collection from January 1 to Marc 31, 1905, inclusive, amounted to  As follows:  Labor and material.  Boarding horses for other departments.  Bireet sweepings.  Manure from barn.  Blacksmith and harness work for other departments.  Use of water cart.  Building driveways, etc.	\$3,085 50 246 28 234 45 70 00	38 846,30	0 54
Bills deposited with the city treasure for collection from January 1 to Marc 31, 1905, inclusive, amounted to  As follows:  Labor and material	\$3,085 50 246 28 234 45 70 00 49 52 16 00	38 846,30	0 54
Bills deposited with the city treasure for collection from January 1 to Marc 31, 1905, inclusive, amounted to  As follows:  Labor and material  Boarding horses for other departments  Street sweepings  Manure from barn  Blacksmith and harness work for other departments  Use of water cart  Building driveways, etc  Removing snow and ice  Removing trees	\$3,085 50 246 28 234 45 70 00 49 52 16 00 13 95	38 846,30	0 54
Bills deposited with the city treasur for collection from January 1 to Marc 31, 1905, inclusive, amounted to  As follows:  Labor and material	\$3,085 50 246 28 234 45 70 00 49 52 16 00 13 95 8 55	38 \$46,30 \$3,736	0 54

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

\$7,328 64

### As follows:

Labor and material	\$6,212 48
Blacksmith and harness work for other depart-	
ments	371 72
Boarding horses for other departments	275 93
Street sweepings	234 45
Use of steam rollers	105 00
Manure from barn	70 00
Building driveways, etc	<b>26</b> 11
Use of water cart	1 <b>6 0</b> 0
Removing snow and ice	8 55
Empty oil barrels	5 40
Removing trees	3 00
<u>-</u>	

\$7,328 64

### SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from January 1 to March 31, 1905, inclusive, amounted to . . . .

**\$384 2**0

### Charged as follows:

Concreting sidewalks	\$360	-00
Repairing sidewalks and gutters	24	20
		_
	\$384	20

Curbing bills deposited with the city treasurer for collection from January 1 to March 31, 1905, inclusive, amounted to .

**\$13,402 61** 

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$3.55**6 63

### As follows:

Curbing bills	\$3,488 63
Granite curbing	68 00
<del>-</del>	
	<b>\$3,556</b> 63

### CITY ENGINEER.

Bills approved on account of the city engineer's department from January 1 to March 31, 1905, inclusive, amounted to

**\$12,865** 80

### Charged as follows:

Salary — city engineer	\$1,125	00
Salaries of assistants	10,483	67
Salaries of clerks	789	75
Car fares	202	30
Supplies — drawing material, etc	190	29
Instruments and repairs	49	40
Telephone lines	23	49
Sundries	1	90
•	\$12.865	80

Bills deposited with the city treasurer for collection from January 1 to March 31, 1905, inclusive, for one wall map of Providence sold, amounted to ...

**\$12 00** 

During the quarter, coupons from bills collected for one wall map of Providence sold, have been returned by the city treasurer, and receipted for to the amount of .

**\$12** 00

### BRIDGES.

January 5, 1905, the proposal of William M. Harris, Jr., to furnish and deliver 33,000 feet of spruce plank for \$21.10 per M. was accepted.

The proposal of E. A. Card to furnish and deliver at the city yard one car load of white oak plank for \$25.00 per M. was accepted.

Bills approve	ed on a	ccoun	it of bri	idges from	
January 1 to	March	31,	1905,	inclusive,	
amounted to	•				<b>24</b> ,952 70

### Charged as follows:

Barn expenses	\$109	67
Building at city yard		40
Car fares	25	00
Crawford street bridge	24	29
Culvert across Allens avenue at Burgess cove-to		
build	248	77
Horses, wagons, harnesses, etc	22	27
Lumber, hardware, etc	69	13
Manton bridge	1	50
Manton avenue bridge	1	75
Merino bridge	1	00
Mill street bridge		90
Point street bridge	422	51
Red bridge	93	20
Rent of keeper's house - Washington bridge	36	00
Repairs on city wharf	1,256	49
Salaries Point street bridge	(41)	75
Salaries Red bridge	474	00
Salaries - Washington bridge	481	00
Sundries	287	17
Telephone lines	2	68
Tools	229	OR.
Washington bridge	233	15
Washington row bridge	3	09
Weybosset bridge	28	90
<del>-</del>	\$4,952	<del>7</del> 0

•
Bills deposited with the city treasurer
for collection from January 1 to March 31,
1905, inclusive, amounted to \$208 17
1000, inclusive, amounted to
As follows:
Old steel trusses \$104 64
Paint stock
\$20\$ 17
During the quarter, coupons from bills
collected have been returned by the city
treasurer and receipted for to the amount of \$98 53
As follows:
Paint stock
•
·Bills approved for account of building
the river walls between the Burnside and
Exchange bridges, from January 1 to
March 31, 1905, inclusive, have been paid
from the special appropriation for that
work, to the amount of \$3,161 78
PUBLIC LIGHTS.
Bills approved on account of the public
lights from January 1 to March 31, 1905,
inclusive, amounted to
Charged as follows:
Arc lights
Incandescent lights
Welsbach lights         6,072 27           Salaries         195 00
Balaries 195 00

\$69,689 14

<del></del>			
Bills deposited with the city treasurer			
for collection from January 1 to March 31,			
1905, inclusive, amounted to		<b>\$</b> 36	76
As follows:			
Glass and paint stock	\$25 76 11 00		
<del></del> -	\$36 76		
During the quarter, coupons for bills			
collected have been returned by the city			
treasurer and receipted for to the amount of		<b>\$</b> 32	76
As follows:			
Glass and paint stock	<b>\$</b> 25 <b>76</b>		
Lamp post and lanterns	7 90		_

### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from January 1 to March 31, 1905, inclusive, amounted to . . . .

**\$**5,211 25

\$32 76

### Charged as follows:

Salaries of commissioner and secretary	<b>\$1,850 00</b>	1
Salaries of office assistants	3,201 26	
Office supplies	141 70	1
Telephone lines	18 29	
	\$5.211.25	

# ABOLISHING GRADE CROSSING AT GROVE STREET, ETc.

Bills approved for account of building retaining walls, etc., on Barre street, from January 1 to March 31, 1905, inclusive, have been paid from the special appropriation for that work, to the amount of . . .

**\$1,501 04** 

WALTER F. SLADE,

Commissioner.



### NINETIETH

## QUARTERLY REPORT

OF THE

# Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1905.



The Providence Press: SNOW & FARNHAM, CITY PRINTERS, 63 Washington Street. 1905.

Bills deposited with the city treasurer for collection from January 1 to March 31,			
1905, inclusive, amounted to	•	<b>\$</b> 36	76
As follows:			
Glass and paint stock	\$25 76 11 00		
	\$36 76		
During the quarter, coupons for bills collected have been returned by the city			
treasurer and receipted for to the amount of		<b>\$32</b>	76
As follows:			
As lonows:			

### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from January 1 to March 31, 1905, inclusive, amounted to . . . .

\$5,211 25

\$32 76

### Charged as follows:

Salaries of commissioner and secretary	\$1,850 00
Salaries of office assistants	3,201 26
Office supplies	141 70
Telephone lines	18 29
	\$5,211 25

### REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., July 1, 1905.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the ninetieth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending June 30, 1905.

### WATER WORKS.

April 4th, the proposal of the Coffin Valve Company to furnish and deliver in the city yard ten 12-inch water gates, Providence pattern, at \$50.00 each, was accepted.

June 2d, the proposal of the Coffin Valve Company to furnish and deliver in the city yard ten sluice valves and seven gate valves was accepted. Amount \$1,199.50.

June 5th, the proposal of Fuller Iron Works to furnish and deliver at Pettaconset, flange pipe and special castings for the filtration plant, at  $2\frac{3}{4}$  cents per pound, was accepted.

June 22d, the proposal of John R. White & Son to furnish the coal required to July 1, 1906, was accepted a follows:

For Pettaconset pumping station, New River, run of mine, at \$3.50 per net ton, delivered.

For the pipe yard, anthracite, at \$5.35 per net ton, at yard.

The average daily consumption of water during the last quarter was 14,559,549 gallons.

Water pipes were laid during the quarter as follows:

	42-inch.	
Αt	Pettaconset for force main	2,855.01 feet.
	<b>36-inch.</b>	
Αt	Pettaconset for force main	40.19 feet.
	12-інсн.	
In	Sprague and Westfield streets; Academy and Mt. Pleasant avenues	3,435.01 feet.
	8-inch.	
In	Admiral and Hawkins streets, and Woodward road; and in Rolfe street, in the town of Cranston	451.24 feet.
	6-inch.	
In	Aleppo, Ash, Brewster, Denison, Elm, Gloucester, Hart, Ivy, Metcalf, Montrose, Moulton, Sprague and Smith streets; Academy, Audubon, Everett, Fairfield, Norwood, Pomona and Reynolds avenues, and Wing court; and in Hudson place, Marion, Montgomery and Reservoir avenues, in the town of Cranston; and in Lyman avenue in the town of North Providence,	5,602.37 fe- <b>-</b>
	Total	12,383.85 fc
or	2.345 + miles.	

Water pipes were removed during the quarter as follow

or .2 + mile.

Statement of sizes and lengths of pipe laid since the commencement of the work:

42-inch	2,855.01 feet.
36-inch	10,124.19 feet.
30-inch	61,328.30 feet.
24-inch	43,838.61 feet.
20-inch	9,626.59 feet.
16-inch	33,812,95 feet.
12-inch	109,681.99 feet.
10-inch	15,057.14 feet.
8-inch	293,842.20 feet.
6-inch	1,255,091.50 feet.
Total	1 92K 9K9 49 fout

or, 347.586 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

Total	29,517.59 feet.
12-inch	2,215.76 feet.
16-inch	23,004.37 feet
24-inch	4,297.46 feet

or, 5.59 + miles.

Thirteen fire hydrants have been set during the quarter, one in each of the following locations:

Academy avenue, east side, 7 feet south of Whitford.

Admiral street, north side, 1 foot east of Italy.

Aleppo street, southeast side, 3 feet northwest of Centerdale Worsted mill.

Allendale avenue, North Providence, 321 feet north of Metcalf. (Post). Ash street, north side, 295 feet east of Hilton.

Elm street, south side, 22 feet west of Narragansett Electric Lighting Company's building.

Elmwood avenue, west side, 3 feet north of Dixon street.

Elmwood avenue, west side, 6 feet north of Sawyer street.

Hathaway street, north side, 207 feet west of Elinwood avenue.

Lyman avenue, North Providence, north side, 7.5 feet east of Glen street.

Reynolds avenue, north side, 159 feet west of Burnside street. Sackett street, north side, 151 feet west of Melrose.

Spooner street, north side, 218 feet west of Elmwood avenue.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and forty-six — nineteen hundred and thirty-eight flush, and one hundred and eight post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and six water meters were set, of which number forty-two were to replace other meters. The use of sixteen meters was discontinued.

The following meters were in use at the close of the quarter:

	Size.						Size.									SIZE.				SIZE.				7
KIND.	∦-in.	}-in.	1-in.	1 <u>‡</u> -in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total														
Ball & Fitts	1,925	400	97	11	4					2,43														
Ball & Fitts, rotary			4	6		2	1			13														
Crown	9,616	1,162	342	146	48	27	25	1		11.35														
Empire	1,207	156	66	46	13	1	1			1,49														
Fales, Jenks & Sons			1							1														
Gem	,				13	29	18	3	 															
Nash	54									5														
Thomson	4,619	424	74	54	22	7	7	2	 	5,20														
Trident	103		1							16														
Venturi	1		ا						1															
Worthington	1				1					ĺ														
•																								
	17,525	2,142	585	263	101	<b>6</b> 6	52	6		20,74														

Four plumber's licenses were issued during the quarter making the total number one hundred and nineteen, all of which expire December 31, 1905.

Eight hundred and ninety-four permits to do plumbing work were issued during the quarter.

Two hundred and fifty-seven applications for water were made during the quarter, making the total number twenty-seven thousand and twenty-seven.

The number of new service stops opened during the quarter was two hundred and fifteen.

The total number of service stops opened to June 30, 1905, inclusive, was twenty-six thousand three hundred and four. The number in actual use June 30, 1905, was twenty-four thousand two hundred twenty-nine.

The amount of bills approved on account of water works from April 1, to June 30, 1905, inclusive, was:

### Classified as follows:

#### PETTACONSET PUMPING STATION.

Laying 42-inch force main from Pettaconset to		
Sockanosset	\$29,750	19
Installation of sand filtration plant at Pettaconset.	22,648	90
Allis Chalmers high-duty engine, to furnish and		
erect	19,278	80
Coal and wood	4,298	58
8undries	1,078	04
Firemen	759	70
Engineers	727	<b>7</b> 6
Superintendence	416	00
Care of grounds	235	27
Repairs on boilers	220	46
Labor on fuel	143	40
Real estate	128	21
Oil, waste and packing	117	<b>7</b> 6
Sand filtration plant for miscellaneous supplies	72	15
Cornish engine house	61	58
Amount carried forward	<b>\$</b> 79,936	80

Amount brought forward	.\$79,936	80	
Corliss pumping engine and house,	59	91	
Barn expenses	48	87	
Worthington high-duty engine	20	73	
Lights	19	50	
		_	\$80,085 81
	•		
Sockanosset Reservoir.			
Sundries	<b>\$</b> 210	69	
Watchman	182	00	
•		_	392 60
Hope Pumping Station.			
Coal and wood	\$1,695	54)	
Holly pumping engine	1,082		
Engineers	479		
Firemen	424		
Sundries	207		
	169		
Repairs on boilers		90 90	
Lights			
Oil, waste and packing		11	4,169 35
Hope Reservoir.			
•			
Sundries	\$432		
Watchman	204	75 —	637 72
FRUIT HILL RESERVOIR.			
	<b>A</b> 011		
Sundries	\$911		
Watchman	204	75	1,116 46
			1,11,7
METER DEPARTMENT.			
Water meters	\$2,987	쏫	
Setting and repairing meters	1,474	65	
		_	4,461 94
PIPE LINE AND SERVICE STO	PS.		
Repairs	\$3,796	65	
Inspection of pipe line and services	1,035		
Superintendence — salaries	874		
			5,706 3
PIPE YARD.			
Cast iron water pipe	<b>\$</b> 6,811	U3	
Fire hydrants, boxes and covers			
rife nyurams, ooxes and covers	5,103		
Amounts carried forward	\$11,914	23	\$96,570

Laying water pipe	<b>\$11,914 2</b> 3	<b>\$</b> 96,570 2
	3,929 63	
Special castings	1,780 65	
Laying service pipe	1,477 49	
Labor on and carting pipe	1,372 14	
Stop valves	680 30	)
Tools	334 95	
Service pipe	281 51	
Pig lead and tin	97 81	
Taps and stops	55 02	
Repairs on pipe yard buildings	30 13	
Pipe yard, office expenses	23 97	
		21,978 4
MISCELLANEOUS.		
Clerks' and inspectors' salaries	<b>\$</b> 1,739 40	
Horses, wagons, harnesses, etc	1,165 01	
Barn expenses	568 10	)
Prevention of defilement of the Pawtuxet	549 99	)
Car fares	250 00	1
Inspection of water pipe with reference to electro-		
lysis	216 90	)
Public drinking fountains and troughs	152 38	
Telephone lines	122 68	
Thawing out water pipe	112 66	;
		4,877 1
		<b>\$</b> 123,425 7
The total expenditures to June	30,	<b>\$</b> 123,425 7
The total expenditures to June 1905, inclusive, was		·
1905, inclusive, was	. \$10,0	91,284 88
1905, inclusive, was	. \$10,0	091,284 88
1905, inclusive, was	. #10,0 1 April 1,	991,284 88
1905, inclusive, was	. \$10,0 n April 1, ne 30, 1905,	991,284 85
1905, inclusive, was	. \$10,0 n April 1, ne 30, 1905,	991,284 86 \$117,379 9
1905, inclusive, was	. \$10,0 n April 1, ne 30, 1905,	991,284 86 \$117,379 9
1905, inclusive, was	. \$10,0  a April 1,  ne 30, 1905,	991,284 86 \$117,379 9
1905, inclusive, was	. \$10,0  a April 1,  ne 30, 1905,	991,284 86 \$117,379 9
1905, inclusive, was	. \$10,0  a April 1,  ne 30, 1905,	991,284 85
1905, inclusive, was	. \$10,0 n April 1, 	\$117,379 9 \$2,376,890 5
The net expenditure for maintenance from to June 30, 1905, inclusive, was	\$10,0  a April 1,  ne 30, 1905,  cem  sity  \$340,694 00	\$117,379 9 \$2,376,890 5
The net expenditure for maintenance from to June 30, 1905, inclusive, was	**10,0 1 April 1, 1 April 1, 10 30, 1905, 10 30, 1905, 10 30, 1905, 11 340,694 00 123,654 45 699,014 97	\$117,379 9 \$12,376,890 5
The net expenditure for maintenance from to June 30, 1905, inclusive, was	**10,6**  1 April 1,  1	\$117,379 9 \$12,376,890 5
The net expenditure for maintenance from to June 30, 1905, inclusive, was  The net expenditure for maintenance to Junicclusive, was  The value of the water works syst January 1, 1905, as estimated by the cengineer, was as follows:  Pettaconset pumping station	**10,6**  1 April 1,  1	\$117,379 93 \$2,376,890 56
The net expenditure for maintenance from to June 30, 1905, inclusive, was	**10,0	\$117,379 9 \$12,376,890 5

June 22d, the proposal of John R. White & Son to furnish the coal required to July 1, 1906, was accompted a follows:

For Pettaconset pumping station, New River, run of mine, at \$3.00 per net ton, delivered.

For the pipe yard, anthracite, at \$5.35 per net ton, at yard.

The average daily consumption of water during the last quarter was 14,559,549 gallons.

Water pipes were laid during the quarter as fo	ollows:
42-inch.	
At Pettaconset for force main	2,855.01 feet.
<b>36-inch.</b>	
At Pettaconset for force main	40.19 feet.
12-ince.	
In Sprague and Westfield streets; Academy and Mt. Pleasant avenues	3,435.01 feet.
8-inch.	
In Admiral and Hawkins streets, and Woodward road; and in Rolfe street, in the town of Cranston	451.24 feet.
6-inch.	
In Aleppo, Ash, Brewster, Denison, Elm, Gloucester, Hart, Ivy. Metcalf, Montrose, Moulton, Sprague and Smith streets; Academy, Audubon, Everett, Fairfield, Norwood, Pomona and Reynolds avenues, and Wing court; and in Hudson place, Marion, Montgomery and Reservoir avenues, in the town of Cranston; and in Lyman avenue in the town of North Providence	5,602,37 feet.
Total	12,383.85 feet.
or 2.345 + miles.	•
Water pipes were removed during the quarter	r as follows:
6-інен.	
From Sprague street	1,0 <b>59</b> .72 feet.

### NINETIETH

## QUARTERLY REPORT

# Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1905.



The Providence Press: SNOW & FARNHAM, CITY PRINTERS, 63 Washington Street. 1905.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and forty-six — nineteen hundred and thirty-eight flush, and one hundred and eight post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and six water meters were set, of which number forty-two were to replace other meters. The use of sixteen meters was discontinued.

The following meters were in use at the close of the quarter:

					Size.					;
KIND.	¶-in.	₹-in.	1-in.	l}-in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total.
Ball & Fitts	1,925	400	97	11	4					2,437
Ball & Fitts, rotary			4	6		2	1	` 		13
Crown	9,616	1,162	342	146	48	27	25	1		11,55
Empire	1,207	156	66	46	13	1	1	 		1,490
Fales, Jenks & Sons			1							i ı
Gem					13	29	18	3		65
Nash	54						· · · · · ·			; эн
Thomson	4,619	424	74	54	22	7	7	2		5,209
Trident	103		1						l <b></b>	104
Venturi	,								1	' 1
Worthington	1									
	 17,525	2,142	 583	263	101	66	 52	6		20,741

Four plumber's licenses were issued during the quarter, making the total number one hundred and nineteen, all of which expire December 31, 1905.

### REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., July 1, 1905.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the ninetieth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending June 30, 1905.

### WATER WORKS.

April 4th, the proposal of the Coffin Valve Company to furnish and deliver in the city yard ten 12-inch water gates, Providence pattern, at \$50.00 each, was accepted.

June 2d, the proposal of the Coffin Valve Company to furnish and deliver in the city yard ten sluice valves and seven gate valves was accepted. Amount \$1,199.50.

June 5th, the proposal of Fuller Iron Works to furnish and deliver at Pettaconset, flange pipe and special castings for the filtration plant, at  $2\frac{\pi}{4}$  cents per pound, was accepted.

June 22d, the proposal of John R. White & Son to furnish the coal required to July 1, 1906, was acccepted s follows:

For Pettaconset pumping station, New River, run of mine, at \$3.50 per net ton, delivered.

For the pipe yard, anthracite, at \$5.35 per net ton, at yard.

The average daily consumption of water during the last quarter was 14,559,549 gallons.

Water pipes were laid during the quarter as follows:

42-inch.	
At Pettaconset for force main	2,855.01 feet.
36-інсн.	
At Pettaconset for force main	40.19 feet.
12-інсн.	
In Sprague and Westfield streets; Academy and Mt. Pleasant avenues	3,435.01 feet.
8-inch.	
In Admiral and Hawkins streets, and Woodward road; and in Rolfe street, in the town of Cranston	451.24 feet
6-inch.	
In Aleppo, Ash, Brewster, Denison, Elm, Gloucester, Hart, Ivy, Metcalf, Montrose, Moulton, Sprague and Smith streets; Academy, Audubon, Everett, Fairfield, Norwood, Pomona and Reynolds avenues, and Wing court; and in Hudson place, Marion, Montgomery and Reservoir avenues, in the town of Cranston; and in Lyman avenue in the town of North Providence	5,602,37 feet
or 2.345 + miles.	12,383.85 feet

Water pipes were removed during the quarter as follows:

Laying water pipe	<b>\$</b> 11,914 23	
	3,929 63	
Special castings	1,780 65	
Laying service pipe	1,477 49	
Labor on and carting pipe	1,372 14	
Stop valves	680 30	
Tools	334 95	
Service pipe	281 51	
Pig lead and tin	97 81	
Taps and stops.	55 02	
Repairs on pipe yard buildings	30 .3	
Pipe yard, office expenses	23 97	21,978 43
Manager		
MISCELLANEOUS		
Clerks' and inspectors' salaries	<b>\$1,739 40</b>	
Horses, wagons, harnesses, etc	1,165 01	
Barn expenses	568 10	
Prevention of defilement of the Pawtuxet	549-99	
Car fares	250 00	)
Inspection of water pipe with reference to electro-		
lysis	216 90	
Public drinking fountains and troughs	152 38	
Telephone lines	122 68	
Thawing out water pipe	112 60	
		4,877 12
		<b>\$</b> 123,425 77
The total expenditures to June	30,	
The total expenditures to June 1905, inclusive, was		091.284 85
The total expenditures to June 1905, inclusive, was		091,284 85
1905, inclusive, was	. \$10,0	, ,
1905, inclusive, was	. \$10,0	, ,
1905, inclusive, was	. \$10,0	<b>\$117,379</b> 93
1905, inclusive, was	. #10,0 . April 1, ne 30, 1905	<b>.</b> <b>\$</b> 117,379 93
The net expenditure for maintenance from to June 30, 1905, inclusive, was	. #10,0 . April 1, ne 30, 1905	<b>.</b> <b>\$</b> 117,379 93
1905, inclusive, was	. \$10,0 n April 1ne 30, 1905	<b>.</b> <b>\$</b> 117,379 93
1905, inclusive, was	. \$10,0  April 1	<b>.</b> <b>\$</b> 117,379 93
The net expenditure for maintenance from to June 30, 1905, inclusive, was	. \$10,0  April 1	<b>.</b> <b>\$</b> 117,379 93
1905, inclusive, was	. \$10,0  April 1	<b>\$117,37</b> 9 93
The net expenditure for maintenance from to June 30, 1905, inclusive, was	. \$10,0  1 April 1  1	\$117,379 93 , , , \$2,376,890 50
The net expenditure for maintenance from to June 30, 1905, inclusive, was	*10,0  April 1  ne 30, 1905  cem city  \$340,694 00	\$117,379 93 \$2,376,890 50
The net expenditure for maintenance from to June 30, 1905, inclusive, was  The net expenditure for maintenance to Juniclusive, was  The value of the water works syst January 1, 1905, as estimated by the congineer, was as follows:  Pettaconset pumping station	. \$10,0  a April 1  be 30, 1905  cem  city  \$340,694 00  123,654 49	\$117,379 93 \$2,376,890 50
The net expenditure for maintenance from to June 30, 1905, inclusive, was	. \$10,6  April 1  ne 30, 1905  em  eity  \$340,684 00  123,654 44  699,014 97	\$117,379 93 \$2,376,890 50
The net expenditure for maintenance from to June 30, 1905, inclusive, was  The net expenditure for maintenance to Juniclusive, was  The value of the water works syst January 1, 1905, as estimated by the congineer, was as follows:  Pettaconset pumping station	*10,6  April 1  ne 30, 1905  em  eity  \$340,684 0  123,654 49  699,014 97  2,717,611 66	\$117,379 93 \$2,376,890 50
The net expenditure for maintenance from to June 30, 1905, inclusive, was	*10,6  April 1  ne 30, 1905  em  eity  \$340,694 00  123,654 44  699,014 9  2,717,611 66  15,975 00	\$117,379 93 \$2,376,890 50

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and forty-six — nineteen hundred and thirty-eight flush, and one hundred and eight post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and six water meters were set, of which number forty-two were to replace other meters. The use of sixteen meters was discontinued.

The following meters were in use at the close of the quarter:

		Size.								
KIND.	∦-in.	}-in.	1-in.	1 <b>j</b> -in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total
Ball & Fitts	1,925	400	97	11	4					2,437
Ball & Fitts, rotary			4	6		2	1			13
Crown	9,616	1,162	342	146	48	27	25	1		11,75
Empire	1,207	156	66	46	13	1	1			1,490
Fales, Jenks & Sons			1						l	' 1
Gem	 				13	29	18	3	١	~
Nash	54									34
Thomson	4,619	424	74	54	22	7	7	2	<b>.</b>	5.0
Frident	103		1						·	10
Venturi			!						1	
Worthington	1				1				<b></b>	
	17,525	2,142	585	263	101		52		1	20,74

Four plumber's licenses were issued during the quarter making the total number one hundred and nineteen, all of which expire December 31, 1905.

Eight hundred and ninety-four permits to do plumbing work were issued during the quarter.

Two hundred and fifty-seven applications for water were made during the quarter, making the total number twenty-seven thousand and twenty-seven.

The number of new service stops opened during the quarter was two hundred and fifteen.

The total number of service stops opened to June 30, 1905, inclusive, was twenty-six thousand three hundred and four. The number in actual use June 30, 1905, was twenty-four thousand two hundred twenty-nine.

The amount of bills approved on account of water works from April 1, to June 30, 1905, inclusive, was:

### Classified as follows:

#### PETTACONSET PUMPING STATION.

Laying 12-men force main from returned to		
Sockanosset	<b>\$2</b> 9,750	19
Installation of sand filtration plant at Pettaconset.	22,648	90
Allis Chalmers high-duty engine, to furnish and		
erect	19,278	80
Coal and wood	4,298	58
Sundries	1,078	04
Firemen	759	70
Engineers	727	76
Superintendence	416	00
Care of grounds	235	27
Repairs on boilers	220	46
Labor on fuel	143	40
Real estate	128	21
Oil, waste and packing	117	<b>7</b> 6
Sand filtration plant for miscellaneous supplies	72	15
Cornish engine house	61	58
Amount carried forward	<b>\$</b> 79,936	80

Laving 42-inch force main from Pettaconset to

June 16th, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials.]

#### TO FREDERICK E. SHAW.

No. of resolution. Date of approval.

181. May 5, 1905, Blackstone boulevard, west side, from north line

of Glen avenue southerly to present end of sewer,

219. June 6, 1905, Northup avenue, from Silver Spring street to the westerly line of Edwards

#### To CHARLES CRANKSHAW.

180. May 5, 1905, Unit street, from Chalkstone avenue to Maynard street, . . . . .

4,256 10

**★900 00** 

1,203 10

Also to Charles Crankshaw, from June 21st.

No. of resolution. Date of approval.
245. June 20, 1905, Rochambeau avenue, from

430 40

June 22d, the proposal of John R. White & Son to furnish the coal required to July 1, 1906, was accepted, as follows:

Ernest street station, New River or Pocahontas, run of mine, at \$3.45 per net ton, delivered.

Sewer maintenance yard, New River or Pocahontas, run of mine, \$3.25, and lump, \$3.75, at bidder's yard.

Sewage precipitation tanks, anthracite, \$5.75 per net ton, delivered.

Sewer maintenance yard, anthracite, \$5.35, per net ton, at bidder's yard.

. May 24, 1905.

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution. Date of approval. Date of completion. Feb. 2, 1904, Admiral street, from Hillwood to end of present sewer in Admiral street, May 12, 1905. 60. Alverson, Eastwood, Laurel Hill and Hartford avenues, . June 9, 1905. 7, 1904, Douglas avenue, from 330. Oct. Farmer street to Vande-. June 5, 1905. . water, . 331. Reservoir avenue, from Elmwood to Adelaide, and in Adelaide avenue, from Reservoir westerly across land of the N. Y., N. H. & H. R. R. Company to main trunk sewer, . May 24, 1905. Feb. 7, 1905, Reynolds avenue, Wads-71. worth and Grand streets, June 28, 1905. 72. Linton and Robin streets, May 6, 1905. May 5, 1905, Reservoir avenue, from 182. Adelaide southerly to

Work upon the following sewers was in progress at the close of the quarter, namely:

Gwinnett court,

No. of resolution. Date of approval.

201. June 7, 1904, Barre street, from Grove to about 1,300 feet northerly; also westerly through right of way across tracks of N. Y., N. H. & H. R. R. Company to Harris avenue.

ged as follows:		
•		
	\$8,396	
reservations	1,127	
al catch-basins	577	
	551	
ement	288	
A3-1-3	19	07
Admiral street, from Hillwood to end of	4 000	•
nt sewer in Admiral	1,029	62
Alverson, Eastwood, Laurel Hill and		00
ford avenues	5,976	20
Douglas avenue, from Farmer street to	0.500	a=
ewater	3,506	60
Eighth street, from Summit avenue to		00
Main street	560	83
Elmdale and Eastwood avenues, White-	001	00
and Cleveland streets	281	
Linton and Robin streets	1,146	Vo
Narragansett avenue and in right of way		400
city line to main trunk sewer	1,697	
Reservoir and Adelaide avenues	2,052	30
Reynolds avenue, Wadsworth and Grand		00
sight of man from Vallan street to the	1,545	90
right of way, from Valley street to the assquatucket river	0.404	K1
Rochambeau avenue, from Hope street	2,404	01
orly to end of present sewer in Rocham-		
avenue	303	94
Thayer, Manning and Brook streets	1,824	
Pleasant Valley Division, Section 31	5,856	
-		<b></b> \$89,145 13
intenance,	•	\$28,964 77
ified as follows:		
basins and sewers	<b>#</b> 5 500	40
basins and sewers	\$5,590	
and repairing old drains	4,567	
n of connections	1,223 706	
perintendent	442	
iperintendent.	395	
enses	367	
	335	
	184	
•		93
e lines		
e linesprivate connections	34	00
e linesprivate connections	34 10	00 00
enses	34 10 7	00 00 10
e linesprivate connections	34 10 7	00 00

No. of r	esolution	. D	ate of ap	proval.
61.	Feb.	7,	1905,	Right of way from Valley street to
				Woonasquatucket river.
68.	"	"	"	Pleasant Valley Division, Section 31.
69.	"	"	"	Elmdale avenue, Cleveland and White-
				hall streets and Eastwood avenue.
70.	"	"	"	Narragansett avenue, from city line
				northerly to point 600 feet north of
				Roger Williams avenue, and in right
				of way easterly to the main trunk sewer.
245.	June	20,	1905,	, Rochambeau avenue, from the westerly
				line of Hope street, westerly about 425
				feet to end of present sewer in Rocham-

Work upon the following sewers, completing the work ordered by the city council, had not commenced June 30, 1905, namely:

beau avenue.

No. of resolution. Date of approval.

- 180. May 5, 1905, Unit street, from Chalkstone avenue to Maynard street.
- 181 " " Blackstone boulevard, west side, from north line of Glen avenue, southerly to present end of sewer.
- 219. June 6, 1905, Northup avenue, from Silver Spring street to the westerly line of Edwards street.

The amount of bills approved on account of sewers from April 1 to June 30, 1905, inclusive, was:

Charged as follows:				
Material	\$8,396	18		
Contract reservations	1,127			
Additional catch-basins	•	02		
Sundries		24		
Testing cement	288	75		
Tools	19	07		
Sewer in Admiral street, from Hillwood to end of				
present sewer in Admiral	1,029	62		
Sewer in Alverson, Eastwood, Laurel Hill and	•			
Hartford avenues	5,976	20		
Sewer in Douglas avenue, from Farmer street to	•			
Vandewater	3,506	65		
Sewer in Eighth street, from Summit avenue to				
North Main street	560	83		
Sewer in Elmdale and Eastwood avenues, White-				
hall and Cleveland streets	281	09		
Sewer in Linton and Robin streets	1,146	06		
Sewer in Narragansett avenue and in right of way				
from city line to main trunk sewer	1,697	92		
Sewer in Reservoir and Adelaide avenues	2,052	36		
Sewer in Reynolds avenue, Wadsworth and Grand				
streets	1,545	90		
Sewer in right of way, from Valley street to the				
Woonasquatucket river  Sewer in Rochambeau avenue, from Hope street westerly to end of present sewer in Rocham-	2,404	51		
beau avenue	303	24		
Sewer in Thayer, Manning and Brook streets	1,824	76		
Sewer in Pleasant Valley Division, Section 31	5,856	73		
-		_	\$39,1	<b>15</b> 13
For maintenance,	•	<b>\$</b> 2	8,964	77
Classified as follows:				
Cleaning basins and sewers	\$5,590	40		
Repairing basins and sewers	4,567	04		
Cleaning and repairing old drains	1,223	<b>5</b> 0		
Inspection of connections	706	10		
Salary, superintendent	442	00		
Sundries	395	07		
Barn expenses	367	33		
Tools	335	54		
Horses, wagons, harnesses, etc	184	63		
Telephone lines	-	93		
Cleaning private connections	34	00		
Car fares		00		
Office expenses	•	10		
Repairs on buildings, sewer maintenance yard	1	38		
Amount carried forward	<b>\$</b> 13,900	02		

Amount brought forward	\$13,900	02
ERNEST STREET STATION.		
Coal and wood	1,304	09
Engineers	812	64
Cleaning and repairing pumps	726	27
Cleaning screens	638	77
Supplies	504	48
Firemen	419	
Care of grounds	124	
Repairs on engines	50	
Lights	21	
Care of buildings	4	09
SEWAGE PRECIPITATION TANK	8.	
Chemicals	5,589	30
Labor in sludge disposal	2,529	
Labor on sewage precipitation	1,425	
Electrical power	555	75
Repairs on tanks	123	79
Miscellaneous supplies	86	86
Fuel	79	68
Repairs on machinery	36	44
Lights	23	71
		J1
	6	
Repairs on buildings		97
Repairs on buildings  The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers	6 \$28,964 to Jun	97 77 ne \$7,683,23 ne
Repairs on buildings  The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers 30, 1905, inclusive, was	6 \$28,964 to Junes to	97 77 ne \$7,683,23 ne
Repairs on buildings.  The net expenditure for construction of sewers 30, 1905, inclusive, was.  The net expenditure for maintenance of sewers 30, 1905, inclusive, was.	6 \$28,964 to Junes to	97 77 ne \$7,683,23 ne
The net expenditure for construction of sewers 30, 1905, inclusive, was	6 \$28,964 to Junes to	97 77 ne \$7,683,23 ne \$1,210,96
The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers 30, 1905, inclusive, was  Bills deposited with the city treasur for collection from April 1 to June 3 1905, inclusive, amounted to  As follows:	6 \$28,964 to Jun s to Jun erer 60,	97 77 ne \$7,663,23 ne \$1,210,96
The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers 30, 1905, inclusive, was  Bills deposited with the city treasur for collection from April 1 to June 3 1905, inclusive, amounted to  As follows:  Miscellaneous work	6 \$28,964 to Jun s to Jun erer 60,	97 77 ne \$7,683,23 ne \$1,210,96
The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers 30, 1905, inclusive, was  Bills deposited with the city treasur for collection from April 1 to June 3 1905, inclusive, amounted to  As follows:  Miscellaneous work  Sale of old metals	6 \$28,964  to Jun s to Jun err 60, .	97 77 ne \$7,683,23 ne \$1,210,96 \$1,065
The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers 30, 1905, inclusive, was  Bills deposited with the city treasur for collection from April 1 to June 3 1905, inclusive, amounted to  As follows:  Miscellaneous work.  Sale of old metals.  Cleaning private connections	6 \$28,964 to Jun s to Jun erer 60,	97 77 ne \$7,683,23 ne \$1,210,96 \$1,065
The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers 30, 1905, inclusive, was  Bills deposited with the city treasur for collection from April 1 to June 3 1905, inclusive, amounted to  As follows:  Miscellaneous work  Sale of old metals  Cleaning private connections	6 \$28,964  to Jun  s to Jun  cer 60,	97 77 ne \$7,683,23 ne \$1,210,96 \$1,065
The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers 30, 1905, inclusive, was  Bills deposited with the city treasur for collection from April 1 to June 3 1905, inclusive, amounted to  As follows:  Miscellaneous work  Sale of old metals  Cleaning private connections  Sale of old filter cloth  Empty oil barrels	6 \$28,964 to Junes to	97 77 ne \$7,663,23 ne \$1,210,96 \$1,065 77 89 25 00 80
The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers 30, 1905, inclusive, was  Bills deposited with the city treasur for collection from April 1 to June 3 1905, inclusive, amounted to  As follows:  Miscellaneous work  Sale of old metals  Cleaning private connections  Sale of old filter cloth  Empty oil barrels  Sewer material	6 \$28,964  to Jun  s to Jun  eer  60,  3822  76  38  30  12	97 77 ne \$7,6/3;23 ne \$1,210,96 \$1,065 77 89 25 00 80 50
The net expenditure for construction of sewers 30, 1905, inclusive, was  The net expenditure for maintenance of sewers 30, 1905, inclusive, was  Bills deposited with the city treasur for collection from April 1 to June 3 1905, inclusive, amounted to  As follows:  Miscellaneous work  Sale of old metals	\$28,964  to Jun  s to Jun  eer  60,  30,  12,  525,  58	97 77 ne \$7,6/3;23 ne \$1,210,96 \$1,065 77 89 25 00 80 50

. . . . . . . . . . . . . . . .

#### As follows:

Miscellaneous work	<b>\$261</b>	25
Sale of old metals	76	89
Cleaning private connections	43	50
Empty oil barrels	12	80
Sewer material	525	50
Laying drains to curbstone	58	35
Testing cement		60
-	\$978	89

#### HIGHWAYS.

Four permits to open streets were issued during the quarter.

May 6th, the proposal of I. Capaldi & Company to furnish and deliver about 1,800 feet of granite curbing at 50 cents per linear foot, was accepted.

May 19th, the proposal of the Taylor Iron and Steel Company to furnish and deliver certain repairs for the Gates crusher for the sum of \$1,033, was accepted.

June 9th, the proposal of the Buffalo Steam Roller Company to furnish and deliver at the city yard one pair of steam roller wheels for \$500, was accepted.

June 13th, the proposal of The New England Granite Works to furnish and deliver at the city yard 500 square yards

of granite blocks each month to December 15, 1905, for the sum of \$1.50 per yard, was accepted.

June 19th, the proposal of Norcross Brothers Company to furnish and deliver at the city yard 500 tons of crushed stone at 95 cents per ton, was accepted.

June 21st, the proposal of Joseph Newall & Company to furnish and deliver at the city yard 50,000 granite blocks at \$1.50 per square yard, was accepted.

June 22nd, the proposal of John R. White & Son to furnish the coal required to July 1, 1906, was accepted at the following prices, namely:

 New River or Pocahontas, run of mine...\$3.25 per net ton at bidder's yard.

 New River or Pocahontas, lump.....\$3.75
 " " " " "

 Anthracite......\$5.35
 " " " " "

June 29th, a statement of the cost of concreting sidewalks in sundry streets, with ten per centum added to cover the cost of assessing and collecting, was certified to the assessors of taxes, aggregating the sum of \$1,432.42.

During the quarter the following work was completed:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

Sept. 15, 1904, Nebraska street, from Eddy to Rugby.

Oct. 20, " Tiber street, from Ridge to Swiss.

- " " Laban street, from corner of Laurel Hill avenue to Merino street.
  - " " Eastwood avenue, from Laurel Hill to Merino street.
- Nov. 17, " Ninth street, from North Main to Highland avenue.
- Dec. 15, " Everett avenue, from Arlington to Elmgrove.

  Mch. 16, 1905, Reservoir avenue, west side, from Algonquin
  street to Crescent.

#### PAVE WITH GRANITE BLOCKS.

Date of order.

Feb. 7, 1905, Federal street, from Broadway to Bradford street.

#### PAVE WITH ASPHALT.

May 5, 1905, Wyeth street, from South Main to South Water.

GRADE AND PUT IN SAFE CONDITION.

March 16, 1905, Charles street, from Hagan to the city line.

The following work was in progress June 30, 1905:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

June 16, 1904, Barre street, from Ridge to Bell.

- Oct. 20, 1904, Grand street, from Potters avenue to Huntington.
- April 20, 1905, Reynolds avenue, from Prairie to Burnside street.
  - " " Linton street, from Academy avenue to Cunton street.
  - " " Robin street, from Berkeley to Regent avenue.

REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

Date of order.

May 18, 1905, Hope street, from Rochambeau avenue to city line.

The following work, ordered by the board of aldermen and city council, had not commenced June 30, 1905, namely:

### SIDEWALKS CURBED AND GUTTERS PAVED, Date of order. June 16, 1904, Bell street, from Barre to Eden. Mch. 16, 1905, Elmdale avenue, from Whitehall street to Webster avenue. Whitehall street, from Wallace to Union avenue. Moulton street, from Westminster to Bewet. 18, 1905, Narragansett avenue, from the city line May northerly to a point about 120 feet north of Ardoene street. Eastwood avenue, from Ralph street to Laurel Hill avenue. Cleveland street, from its easterly termination to Laurel Hill avenue. Wadsworth street, from Sorrento to Cranston.

#### PAVE WITH GRANITE BLOCKS.

May 5, 1905, Sabin street, from West Exchange to Aborn.

Bills approved on account of highways from April 1 to June 30, 1905, inclusive, amounted to . . . . . . . \$87,636 38

#### Classified as follows:

Cleaning streets	\$23,013	82
Repairs on unpaved streets	16,758	00
Crushed stone-material and labor	10,473	34
Repairs on paved streets	3,878	44
Stone—paving and crosswalk	3,409	86
Blacksmith and wheelwright shop	2,851	22
Repairs on stone crushers	2,434	68
Barn expenses	2,231	65
Tools, implements, etc	932	<b>5</b> 0
Watering streets	862	04
Steam rollers—repairs and supplies	700	86
Amount carried forward	\$67,546	41

Amount brought forward	<b>\$</b> 67,546 41		
Labor on material	682 54		
Superintendent's salary	442 00		
Building driveways, etc	255 09		
Horses, wagons, harhesses, etc	250 26		
Watchman at city yard	156 40		
Sundries	150 71		
Fencing streets—material and labor	110 80		
Car fares	35 00		
Repairs on buildings, highway yard	29 03		
Office expenses, city yard	15 04		
Telephone lines	5 60		
•		<b>\$</b> 69,678	88
New Work — Building and	REBUILD-		
ING STREETS, ETC.			•
SIDEWALKS CURBED AND GUTTERS	PAVED.		
Eastwood avenue, from Laurel Hill to Merino street Elmdale avenue, from Whitehall street to Webster	<b>\$1,206</b> 92		
avenue	101 70		
Everett avenue, from Arlington to Elmgrove	3,209 16	•	
Grand street, from Potter avenue to Huntington	745 38		
Laban street, from Laurel Hill avenue to Merino			
street	<b>766 22</b>		
Linton street, from Academy avenue to Canton			
street,	1,128 36		
Nebraska street, from Eddy to Rugby	782 41		
Ninth street, from North Main to Highland avenue	1,446 72		
Reservoir avenue, west side, from Algonquin street	• •		
to Crescent	1,283 35		
Reynolds avenue, from Prairie to Burnside street	. 151 70		
Robin street, from Berkley to Regent avenue	998 26		
Tiber street, from Ridge to Swiss	393 24	10.012	40
		12,213	42
PAVE WITH GRANITE BLOCKS	<b>3.</b>		
Federal street, from Broadway to Bradford street		2,013	58
PAVE WITH ASPHALT.			
Wyeth street, from South Main to South Water		327	97
•			
GRADE AND PUT IN SAFE CONDI			
Charles street, from Hagan to the city line	<b>\$3,244</b> 58		
nope street, from Rochambeau avenue to the city	157 95		
line	101 20		
		3,402	53

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of		<b>\$19</b> 8 (	<b>89</b>
As follows:			
Old steel trusses	\$104 64 3 90 1 25 \$108 89		
Bills approved for account of building the river walls between the Burnside and Exchange bridges, from April 1 to June 30, 1905, inclusive, have been paid from the special appropriation for that work, to the amount of	•	<b>\$</b> 31	50
Bills approved for account of rebuilding abutments and piers, Point street bridge from April 1 to June 30, 1905, inclusive, have been paid from the special appropriation for that work, to the amount of	, }	<b>\$</b> 96	37

## PUBLIC LIGHTS.

Bills	appro	ved on	ac	con	int of	the	publ	ic	
lights	from	April	1	to	June	30,	190	5,	
inclusi	ve, am	ounted	to			•	•	•	<b>*</b> 70,375 20

## Charged as follows:

\$70	,375	20
aries	195	<u>00</u>
elsbach lights 6	5,221	75
candescent lights 12	.721	38
e lights \$51	,237	07

#### SIDEWALKS AND CURBING.

Bills approved on account of sidewal and curbing from April 1 to June 8			
1905, inclusive, amounted to	•	<b>\$7,970</b>	20
Charged as follows:			
Granite curbing	\$4,496 \$		
Repairing sidewalks and gutters  Concreting sidewalks	1,807 3- 1,666 0		
-	<b>\$</b> 7,970 20	- )	
Curbing bills deposited with the ci	ty		
treasurer for collection from April 1	to		
June 30, 1905, inclusive, amounted to	•	<b>\$114</b>	98
During the quarter, coupons from bi collected have been returned by the ci			
treasurer and receipted for to the amount	of	<b>\$1,474</b>	12

#### As follows:

Curbing bills		
-		_
	\$1,474 1	12

#### CITY ENGINEER.

Bills approved on account of the city engineer's department from April 1 to June 30, 1905, inclusive, amounted to

**\$**12,431 00

## Charged as follows:

Salary — city engineer	\$1,125	00
Salaries of assistants	10,109	34
Salaries of clerks	789	75
Car fares	203	05
Supplies - drawing material, etc	. 177	78
Telephone lines		18
Sundries		90
<del>-</del>	<b>\$</b> 12,431	00

#### BRIDGES.

May 8th, the proposal of the Narragansett Improvement Company to lay Bermudez asphalt pavement on the Charles street railroad bridge for \$2 per square yard, was accepted.

June 22nd, the proposal of John R. White & Son to furnish all the coal required to July 1, 1906, was accepted at the following prices, namely:

New River or Pocahontas, lump	.\$4.00 pe	r net	ton o	lelivered
Anthracite	.\$5.75	"	"	**

June 26th, the proposal of William M. Harris, Jr., to furnish 22,000 feet of pine and spruce plank at \$20 to \$23.50 per M. feet, was accepted.

Bills approved on account of bridges from	om	•	
April 1 to June 30, 1905, inclusi	ve.		
amounted to	•	<b>\$</b> 7,663	03
Charged as follows:			
Acorn street bridge	\$15	09	
Barn expenses	91		
Branch avenue bridg.e	28	80	
Charles street railroad bridge	506	78	
Con tract reservation	70	00	
Crawford street bridge	29	98	
** Pee street bridge	240	99	
Orses, wagons, harnesses, etc	38	21	
Lumber, hardware, etc	239	01	
Manton bridge	2	09	
anton avenue bridge	68	22	
Mill street bridge	1	50	
Park street bridge	6	20	
Point street bridge	399		
Randall street bridge		66	
Red bridge	605		
Rent of keeper's house — Washington bridge	. 36		
Repairs on city wharf	2,350		
Salaries — Point street bridge	977		
Salaries — Red bridge	513		
Salaries — Washington bridge	513		
Smith street bridge	_	04	
Smithfield avenue bridge		00	
Sundries		66	
Telephone lines	_	68	
Tools		69	
Washington bridge	145		
Washington row bridge		20	
Weybosset bridge	632	11	
	<b>\$</b> 7,663	03	
Bills deposited with the city treasu	rer		
for collection from April 1 to June			
1905, inclusive, amounted to	•	<b>\$</b> 4	<b>2</b> 5
As follows:		•	
Sale of old scow		00	
Sale of old lumber	-	00 25	
Date of old lumber			
	84	 25	

## ABOLISHING GRADE CROSSING AT GROVE STREET, ETc.

June 1st, the proposal of Charles Crankshaw to build an eight-inch drain in Eiswald street, from right of way about 400 feet southerly, was accepted. Amount \$348.

Bills approved for account of building retaining walls, etc., on Barre street, from April 1 to June 30, 1905, inclusive, have been paid from the special appropriation for that work, to the amount of . . .

\$13,294 30

Bills deposited with the city treasurer for collection from April 1 to June 30, 1905, inclusive, for building eight-inch drain, amounted to

\$300 **00** 

WALTER F. SLADE,

Commissioner.

Bills deposited with the city treasurer for collection from April 1 to June 30, 1905, inclusive, amounted to . **\$11** 00 As follows: Removing gas post..... Lanterns and frames..... 5 00 \$11 00 During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of **\$15 00** As follows: Lamp post and lantern..... **\$**9 00 Removing gas post..... **\$1**5 '**0**0

#### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from April 1 to June 30, 1905, inclusive, amounted to .

**\$5,086** 47

### Charged as follows:

Salaries of commissioner and secretary	<b>\$1,850 00</b>
Salaries of office assistants	3,023 66
Office supplies	193 25
Telephone lines	19 56
	\$5.086 47

## ABOLISHING GRADE CROSSING AT GROVE STREET, ETC.

June 1st, the proposal of Charles Crankshaw to build an eight-inch drain in Eiswald street, from right of way about 400 feet southerly, was accepted. Amount \$348.

Bills approved for account of building retaining walls, etc., on Barre street, from April 1 to June 30, 1905, inclusive, have been paid from the special appropriation for that work, to the amount of . . .

**\$13,294 80** 

**\*300 00** 

WALTER F. SLADE,

Commissioner.

NINETY-FIRST

QUARTERLY REPO

OF THE

## Department of Public

OF THE

CITY OF PROVIDENCE, R

QUARTER ENDING SEPTEMBER



The Providence Press SNOW & FARNHAM, CITY PRINTERS 63 Washington Street. 1905.

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#### NINETY-FIRST

## QUARTERLY REPOR

OF THE

# Department of Public

OF THE

CITY OF PROVIDENCE, R.

QUARTER ENDING SEPTEMBER



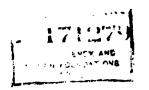
Che Providence Press

SNOW & FARNHAM, CITY PRINTERS,

63 Washington Street.

1905.

O.W.



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## REPORT.

. . \_\_\_\_

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., October 2, 1905.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the ninety-first quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending September 30, 1905.

#### WATER WORKS.

July 1st, the proposal of James H. Tower to furnish and install at Pettaconset pumping station a bar iron grated floor, and brass guard rails around fly wheel of engine, for the sum of \$1,000.00, was accepted.

July 14th, the proposal of the Park Brew Company to furnish the ice required in the various drinking fountains during the season for \$2.50 per ton, was accepted.

August 11th, the proposal of John I. Drake to furnish and install at Pettaconset pumping station a direct connected engine and dynamo for 150 lamps, a slate switch-board with full set of instruments, and also to install certain

lamps, and connect old system of lighting to the new board, for the sum of \$1,423.00, was accepted.

August 29th, the proposal of Builders Iron Foundry to furnish and deliver at Pettaconset pumping station two 20-inch Venturi meters, with regular geared indicators, for \$864.00, was accepted.

September 19th, the sum of \$45.00 was paid by Louis H. Meyer for cost of laying water pipe in Whitehall street under provisions of the city council resolution 297 approved June 21, 1895.

The average daily consumption of water during the last quarter was 14,886,702 gallons.

Water pipes were laid during the quarter as follows:

42-inch.	
At Pettaconset for force main	2,124.48 feet.
36-inch.	
At Pettaconset for force main	83.38 feet
12-inch.	
In Dexter and Hope streets and Park avenue	1,153,38 feet.
8-inch.	
In Carleton street	384.40 feet.
6-inch.	
In Abo, Barre, Benton, Burke, Cleveland, Darien, David, Daboll, Eighth, Erin, Eudora, Fisher, Longmont, Merino, Newark, Rugby, Seymour, Sixth, Shafter, Tenth and Wadsworth streets; Eastwood, Morris, Terrace and Farmington avenues; in Dunedin street: Farmington, Meadow and Orchard avenues: Selkirk, Stratford and Strathmore roads; and in Scattergood place in the town of Cranston; and in Hillside avenue in the town of Johnston.	6,153.08 feet
Total	9,898.72 feet -
or 1.874 + miles.	

Water pipes were removed or abandoned during the quarter as follows:

24-інсн.	
At Pettaconset	544.75 feet.
8-інсн.	
From Acorn street	220.45 feet.
6-inch.	
From Dexter street	615.96 feet.
Total	1,381.16 feet.
or .261 + mile.	
Statement of sizes and lengths of pipe laid simencement of the work:	ince the com-
mencement of the work:	4,979.49 feet. 10,207.57 feet.
mencement of the work:	<b>4,979.49</b> feet.
mencement of the work:  42-inch	4,979.49 feet. 10,207.57 feet.
mencement of the work:  42-inch	4,979.49 feet. 10,207.57 feet. 61,328.30 feet.
mencement of the work:  42-inch	4,979.49 feet. 10,207.57 feet. 61,328.30 feet. 43,293.86 feet.
mencement of the work:  42-inch	4,979.49 feet. 10,207.57 feet. 61,328.30 feet. 43,293.86 feet. 9,626.59 feet.
mencement of the work:  42-inch	4,979.49 feet. 10,207.57 feet. 61,328.30 feet. 43,223.86 feet. 9,626.59 feet. 33,812.95 feet. 110,835.37 feet. 15,057.14 feet.
mencement of the work:  42-inch 36-inch 24-inch 20-inch 16-inch 10-inch 8-inch	4,979.49 feet. 10,207.57 feet. 61,328.30 feet. 43,293.86 feet. 9,626.59 feet. 33,812.95 feet. 110,835.37 feet. 15,057.14 feet. 294,006.15 feet.
mencement of the work:  42-inch	4,979.49 feet. 10,207.57 feet. 61,328.30 feet. 43,223.86 feet. 9,626.59 feet. 33,812.95 feet. 110,835.37 feet. 15,057.14 feet.

or, 349.2 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch 16-inch 12-inch	23,004.37 feet
Total	29,517.59 feet.

or, 5.59 + miles.

Seven fire hydrants have been set during the quarter, one in each of the following locations:

Charles street, east side, 5 feet south of Christopher street.

Dexter street, east side, 6 feet south of Mawney street.

Douglas avenue, North Providence, west side, 30 feet south of Tifsay street.

Elmdale avenue, north side, 239 feet east of Webster avenue.

Elmdale avenue, north side, 245 feet west of Whitehall street.

Hope street, east side, 6.5 feet south of Ogden street.

Park avenue, south side, 800 feet east of Elmwood avenue.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and fifty-three — nineteen hundred and forty-four flush, and one hundred and nine post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and sixty water meters were set, of which number forty were to replace other meters. The use of eleven meters was discontinued.

The following meters were in use at the close of the quarter:

	1				SIZE.					7
KIND.	ğ-in.	ţ-in.	1-in.	1 <u>‡</u> -in.	2-in.	3-in.	4-in.	6-in,	8-in.	Total
Ball & Fitts	1,893	396	95	11	4					2,39
Ball & Fitts, rotary			4	6		2	1		*****	1
Crown	9,662	1,177	352	147	48	29	26	1	*****	11,44
Empire	1,280	162	67	46	14	1	1			1,57
Fales, Jenks & Sons			1				.,			
Gem				*****	15	29	18	3		
Nash	145									14
Thomson	4,618	423	74	54	22	7	7	2		5,20
Trident	103		1							10
Venturi									1	
Worthington	1		,,		1					0
	17,702	2,158	594	264	104	68	53	6	1	20,90

One plumber's license was issued during the quarter, making the total number one hundred and twenty, all of which expire December 31, 1905.

Six hundred and eighty-seven permits to do plumbing work were issued during the quarter.

One hundred and sixty-seven applications for water were made during the quarter, making the total number twentyseven thousand one hundred and ninety-four.

The number of new service stops opened during the quarter was two hundred and four.

The total number of service stops opened to September 30, 1905, inclusive, was twenty-six thousand five hundred and eight. The number in actual use September 30, 1905, was twenty-four thousand four hundred and fifty-four.

The amount of bills approved on account of water works from July 1, to September 30, 1905, inclusive, was:

#### Classified as follows:

#### PETTACONSET PUMPING STATION.

Installation of sand filtration plant at Pettaconset.  Allis-Chalmers high-duty engine, to furnish and	\$25,313	99
erect	19,036	28
Coal and wood	5,939	27
Laying 42-inch force main from Pettaconset to		
Sockanosset	5,863	32
Cornish engine house	1,405	72
Sundries	1,108	23
Leading main from Sockanosset to city - to lay	1,000	00
Firemen	814	90
Engineers	655	96
Superintendence	416	00
Real estate	372	56

i4 120,878

	1.926 23	Amount brought forward
	297 43	Corliss pumping engine and house
	212 32	Oil, waste and packing
	148 21	Sand filtration plant for miscellaneous supplies
	138 00	Care of grounds
	127 18	Repairs on boilers
	125 00	Labor on fuel
	115 19	Worthington high-duty engine
	57 36	Barn expenses
	2 30	Lights
\$63,149 11		-
		Sockanosset Reservoir.
	<b>\$</b> 182 00	Watchman
	110 72	Sundries
292 72	110 12	Sunuries
		Hope Pumping Station.
	\$451 90	Firemen
	319 57	Engineers
	71 96	Sundries
	49 90	Lights
	13 13	Coal and wood.
906 69		Holly pumping engine
		Hope Reservoir.
	\$268 29	Sundries
	204 75	Watchman
473 04		wateriusti
		FRUIT HILL RESERVOIR.
	AROV	
	\$735 MO	Sundries
	194 50	Watchman
930 30		
930 30		Metro Designation
930 30		MRTER DEPARTMENT.
930-30	4,379 38	Water meters
930 30 6,047 26	4,379 38 1,667 88	
		Water meters
	88 Tim,1	Water meters Setting and repairing meters. Pipk Line and Service Sto
	1,667 88	Water meters Setting and repairing meters.  PIPE LINE AND SERVICE STO Repairs
	88 Tim,1	Water meters Setting and repairing meters. Pipk Line and Service Sto

Amount carried forward .....

Laying service pipe.       1,457 36         Special castings.       945 79         Service pipe.       605 50         Pig lead and tin.       483 26         Fools.       319 38         Labor on and carting pipe.       204 30         Pipe yard, office expenses.       57 64         Fire hydrants, boxes and covers.       45 50         Faps and stops.       37 25         Repairs on pipe yard buildings.       5 52         Miscellangors.       5 52         Miscellangors.       644 19         Prevention of defilement of the Pawtuxet.       549 99         Car fares.       150 00         Horses, wagons, harnesses, etc.       148 16         Telephone lines.       122 68         Real Estate in Lincoln.       27 50         Public drinking fountains and troughs.       26 68         Sundries.       3,415 3	Amount brought forward			<b>\$</b> 78,653 45
Laying service pipe. 1,467 36 special castings. 945 79 service pipe. 608 50 Pig lead and tim. 483 26 Fools. 319 38 Labor on and carting pipe. 204 30 Pipe yard, office expenses. 57 64 Fire hydrants, boxes and covers. 45 50 Faps and stops. 37 25 Repairs on pipe yard buildings. 5 52  MISCELLANROUS.  Clerks' and inspectors' salaries. \$1,739 40 Barn expenses. 644 19 Prevention of defilement of the Pawtuxet. 549 99 Car fares. 150 00 Horses, wagons, harnesses, etc. 144 16 Felephone lines. 122 68 Real Estate in Lincoln. 27 50 Public drinking fountains and troughs. 26 68 Sundries. 673  The total expenditures to September 30, 1905, inclusive, was \$10,181,008 86 The net expenditure for maintenance from July 1, to September 30, 1905, inclusive, was \$81,334 95 The net expenditure for maintenance to September 30, 1905, inclusive, was \$2,458,225 4  The value of the water works system  January 1, 1905, as estimated by the city engineer, was as follows:  Pettaconset pumping station \$340,694 00 Hope pumping station \$340,694 00 Hope pumping station \$2,717,611 60 Real estate in Pawtuxet and Lincoln 15,975 00	PIPE YARD.			
Special castings	Laying water pipe	<b>\$</b> 3, <b>4</b> 93	73	
Service pipe	Laying service pipe	1,457	36	
Pig lead and tin				
Solid				
Labor on and carting pipe				
Pipe yard, office expenses				
Sire hydrants, boxes and covers				
Taps and stops				
Miscellaneous   5 52   7,655 2				
Miscellangous   S1,739 40				
State   Stat	Kepairs on pipe yard buildings			7,655 23
State   Stat	Miscritaneous			
Barn expenses		A1 700		
Prevention of defilement of the Pawtuxet		-		
Car fares				
Horses, wagons, harnesses, etc. 148 16 Telephone lines. 122 68 Real Estate in Lincoln. 27 50 Public drinking fountains and troughs. 26 68 Sundries. 6 73  The total expenditures to September 30,  1905, inclusive, was . \$10,181,008 86 The net expenditure for maintenance from July 1, to September 30, 1905, inclusive, was . \$81,334 9  The net expenditure for maintenance to September 30, 1905, inclusive, was . \$2,458,225 4  The value of the water works system  January 1, 1905, as estimated by the city engineer, was as follows:  Pettaconset pumping station . \$340,634 00 Hope pumping station . \$340,634 00 Hope pumping station . \$340,634 00 Sockanosset. Hope and Fruit Hill reservoirs . 699,014 97 Main lines and distribution pipes . 2,717,611 60 Real estate in Pawtuxet and Lincoln . 15,975 00				
Telephone lines				
27 50	* ** *			
Public drinking fountains and troughs		_		
The total expenditures to September 30,  1905, inclusive, was \$10,181,008 86  The net expenditure for maintenance from July 1, to September 30, 1905, inclusive, was \$81,334 9  The net expenditure for maintenance to September 30, 1905, inclusive, was				
The total expenditures to September 30,  1905, inclusive, was	**			
The total expenditures to September 30,  1905, inclusive, was	- Sundi lea			3,415 3
The net expenditure for maintenance from July 1, to September 30, 1905, inclusive, was			-	\$89,724 01
The net expenditure for maintenance from July 1, to September 30, 1905, inclusive, was	The total expenditures to September 3	30.		•
The net expenditure for maintenance from July 1, 50 September 30, 1905, inclusive, was			n 18	1 008 86
The net expenditure for maintenance to September 30, 1905, inclusive, was	•		•	1,000 00
The net expenditure for maintenance to September 30, 1905, inclusive, was		•	•	<b></b>
The value of the water works system  January 1, 1905, as estimated by the city engineer, was as follows:  Pettaconset pumping station	-			\$01,004 IR
The value of the water works system  January 1, 1905, as estimated by the city engineer, was as follows:  Pettaconset pumping station				
January 1, 1905, as estimated by the city engineer, was as follows:  Pettaconset pumping station	inclusive, was	• • • • • • • •	\$	2,458,220 40
January 1, 1905, as estimated by the city engineer, was as follows:  Pettaconset pumping station	The value of the water works syst	em		
Pettaconset pumping station				
Pettaconset pumping station       \$340,694 00         Hope pumping station       123,654 45         Sockanosset. Hope and Fruit Hill reservoirs       699,014 97         Main lines and distribution pipes       2,717,611 60         Real estate in Pawtuxet and Lincoln       15,975 00		ity		
Hope pumping station       123,654 45         Sockanosset. Hope and Fruit Hill reservoirs       699,014 97         Main lines and distribution pipes       2,717,611 60         Real estate in Pawtuxet and Lincoln       15,975 00	engineer, was as follows:			
Hope pumping station       123,654 45         Sockanosset. Hope and Fruit Hill reservoirs       699,014 97         Main lines and distribution pipes       2,717,611 60         Real estate in Pawtuxet and Lincoln       15,975 00	Pettaconset pumping station	\$340,694	00	
Main lines and distribution pipes				
Real estate in Pawtuxet and Lincoln 15,975 00	Sockanosset, Hope and Fruit Hill reservoirs	699,014	97	
	Main lines and distribution pipes	2,717,611	60	
Tools and supplies	Real estate in Pawtuxet and Lincoln	15,975		
	Tools and supplies	35,113	01	

Bills deposited with the city treasure for collection from July 1 to September 3		·	
1905, inclusive, amounted to	•	<b>\$</b> 88,886	21
As follows:			
Water	\$80,644		
Water meters	4,437		
Setting and repairing meters	2,273		
Labor and material, laying services, etc	1,361		
Rent of real estate	100		
Penalties Permanently closing service stops		00	
		\$88,886	6 21
	ity		~
treasurer and receipted for to the amount  As follows:	•	<b>\$</b> 88, <b>19</b> 5	29
•	of	ŕ	29
As follows:	of \$79,754	18	29
As follows:  Water	of	18 00	29
As follows:  Water	of \$79,754 4,373	18 00 34	20
As follows:  Water	879,754 4,373 2,525	18 00 34 92	29
As follows:  Water Water meters Setting and repairing meters Labor and material, laying services, etc Rent of real estate Penalties	879,754 4,373 2,525 1,342 100	18 00 34 92	29
As follows:  Water Water meters Setting and repairing meters Labor and material, laying services, etc Rent of real estate Penalties Repairs on pipe line	879,754 4,373 2,525 1,342 100 52 27	18 00 34 92 50 00 35	29
As follows:  Water	879,754 4,373 2,525 1,342 100 52 27	18 00 34 92 50 00 35 00	
As follows:  Water Water meters Setting and repairing meters Labor and material, laying services, etc Rent of real estate Penalties Repairs on pipe line	879,754 4,373 2,525 1,342 100 52 27 20	18 00 34 92 50 00 35	

Classified as follows:

PETTACONSET PUMPING STATION.

Allis-Chalmers high-duty engine, to furnish and		
erect		93
Installation of sand filtration plant at Pettaconset.	68,305	68
Laying 42-inch force main from Pettaconset to		
Sockanosset	55,958	60
Coal and wood	19,697	15
Amount carried forward	\$220,879	 36

		_		
Amount brought forward	<b>\$</b> 220,879	36		
Sundries	5,049	67		
Firemen	3,258			
Engineers	2,905			
Cornish engine house	1,725			
Worthington high-duty engine	1,708			
Superintendence	1,624			
Corliss pumping engine and house	1,581			
Repairs on boilers.	1,154			
Leading main from Sockanosset to city—to lay	1,000			
Real estate	822			
Oil, waste and packing	728			
Labor on fuel.	700			
New chimney, to furnish and erect				
Care of grounds				
Sand filtration plant, for miscellaneous supplies				
Barn expenses	208			
Lights	150			
Cornish pumping engine		65		
Cornien bambing engine			<b>\$244,7</b> 95	()4
			-	
Sockanosset Reservoir. Watchman	<b>67</b> 20	00		
Sundries	<b>\$</b> 730 539			
sundries		<del>20</del>	\$1,269	26
HOPK PUMPING STATION.				
Coal and wood	\$1,788			
Firemen	1,649			
Engineers	1,484			
Holly pumping engine	1,310			
Sundries	374			
Lights	264	60		
Repairs on boilers	223			
Nagle pumping engine	214			
Oil, waste and packing	24	62	7,334	41
			.,	
Hope Reservoir.	<b>A</b>			
Sundries	\$898			
Watchman	821	25 —	1,720	09
			.,.20	•
FRUIT HILL RESERVOIR.				
Sundries	\$2,308	67		
Watchman	811	00		
-			3,119	67
Amount carried forward			<b>6</b> 070 000	
Amount carried forward			\$258,238	41

METER DEPARTMENT.		
Water meters	\$18,935 48	
Setting and repairing meters	6,283 57	20,219 3
•		20,219
PIPE LINE AND SERVICE STO		
Repairs	\$18,017 51	
Inspection of pipe line and services	4,034 71	
Superintendence — salaries	3,502 96	23,145
PIPE YARD.		
Laying water pipe	\$15,668 75	
Cast iron water pipe	13,243 56	
Fire hydrants, boxes and covers	7,860 52	
Laying service pipe	4,734 76	
Special castings	3,446 97	
Service pipe	2,535 88	
Tools	2,418 07	
Stop valves	1,955 30	
Labor on and carting pipe	1,935 99	
Pig lead and tin	1,472 17	
Taps and stops	1,389 01	
Pipe yard, office expenses	269 23	
Repairs on pipe yard buildings	53 59	56,983 8
MISCELLANEOUS.		•
Town of Cranston tax	<b>\$</b> 7,083 94	
Clerks' and inspectors' salaries	6,629 59	
Thawing out water pipe	6,438 56	
Barn expenses	2,612 68	
Prevention of defilement of the Pawtuxet	2,199 96	
Horses, wagons, harnesses, etc	1,598 99	
Car fares	540 00	
Telephone lines	490 72	
Town of North Providence tax	400 00	
Inspection of water pipe with reference to electro-		
lysis	216 90	
Public drinking fountains and troughs	193 96	
Sundries	62 21	
Real estate at Pawtuxet	39 73	
Real estate at Lincoln	27 50	28,534
	_	\$387,121
For construction,	_	3 <b>3,</b> 322 6

Charged as follows:

Installation of sand filtration plant at Pettaconset, \$33,322 61

#### SEWERS.

During the quarter ending September 30, 1905, three hundred and ninety-four permits were issued to drain-layers—two hundred and thirty-five for new work and one hundred and fifty-nine for extensions and repairs of drains.

Two drain-layer's licenses were issued during the quarter, making the total number one hundred and thirty-six, all of which expire December 31, 1905.

July 8th, the proposal of J. Spencer Turner Company to furnish and deliver 10,000 yards of 40-inch duck, No. 2048, for 20½ cents per yard, was accepted.

August 12th, the proposal of Charles Crankshaw to lay a six-inch drain from the end of sewer in Rochambeau avenue to the school house property in said avenue, for 50 cents per linear foot, was accepted.

August 29th, the proposal of Starkweather & Williams Company to furnish and deliver at Harbor Junction wharf prime green copperas in bulk, in car load lots, as required during the year 1906, for 50 cents per hundred weight, was accepted.

September 6th, a contract for the completion of the sewer in Narragansett avenue and right of way was awarded to Frederick E. Shaw, and subsequently executed. The estimated cost of same is \$4,091.87.

September 22d, contracts for the construction of the following sewers were awarded to Frederick E. Shaw and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials.]

No. of resolution. Date of approval.

286.	Sept	. 12,	1905	, Andem street, from Can-	
				ton to Bergen,	<b>\$647</b> 80
287.	44	"	"	Grotto avenue, from	
				$Penrose\ to\ Irving,$ .	1,004 30
288.	66	"	"	West River street, from	
				Cross to Burke, and from	
				West River street at Elk	
				easterly through right of	
				way about 530 feet to	
				end of section 22 of the	•
				improved sewerage sys-	
				tem ,	8,055 30

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution. Date of approval.

Date of completion.

201. June 7, 1904, Barre street, from Grove
to about 1,300 feet northerly: also westerly
through right of way
across tracks of N. Y.,
N. H. & H. R. R. Company to Harris avenue. . Sept. 1, 1905-

Aug. 26, 1905.

No. of resolution. Date of approval.

Date of completion.

67. Feb. 7, 1905, Right of way from

Valley street to Woon-asquatucket river. . July 28, 1905.

69. " " Elmdale avenue, Cleveland and Whitehall streets and Eastwood

avenue. .

245. June 20, 1905, Rochambeau avenue,
from the westerly line of
Hope street, westerly
about 425 feet to end
of present sewer in Rochambeau avenue. July 21, 1905.

Work upon the following sewers, was in progress at the close of the quarter, namely:

No. of resolution. Date of approval.

- 68. Feb. 7, 1905, Pleasant Valley Division, Section 31.
- 70. " " Narragansett avenue, from city line northerly to point 600 feet north of Roger Williams avenue, and in right of way easterly to the main trunk sewer.
- 180. May 5, 1905, Unit street, from Chalkstone avenue to Maynard street.
- 181 " " Blackstone boulevard, west side, from north line of Glen avenue, southerly to present end of sewer.
- 219. June 6, 1905, Northup avenue, from Silver Spring street to the westerly line of Edwards street.

**\*32,866 58** 

Work upon the following sewers, completing the work ordered by the city council, had not commenced September 30, 1905, namely:

No. of resolution. Date of approval.

286.	Sept.	12,	1905,	Andem street, from Canton to Bergen.
287.	66	"	44	Grotto avenue, from Penrose to Irving.
288.	66	**	<b></b>	West River street, from Cross to Burke, and from West River street at Elle easterly through right of way about 530 feet to end of Section 22 of the improved sewerage system.

The amount of bills approved on account of sewers from July 1 to September 30, 1905, inclusive, was:

For construction, . . . . . .

		-
Charged as follows:		
Material	\$6,704	19
Additional catch-basins	1,158	49
Testing cement	314	62
Sundries	206	15
Contract reservations	199	00
Tools	91	06
Sewer in Admiral street, from Hillwood to end of		
present sewer in Admiral	5	00
Sewer in Alverson, Eastwood, Laurel Hill and	•	••
Hartford avenues	263	70
Sewer in Barre street, from Grove to about 1,300	,	• • •
feet northerly; also westerly through right of		
way across tracks of N. Y., N. H. and H. R. R.		
Company to Harris avenue	406	***
	400	. 35,9
Sewer in Blackstone boulevard, west side, from		
north line of Glen avenue, southerly to present end of sewer		
	99	82
Sewer in Douglas avenue, from Farmer street to		
Vandewater	5	00
Sewer in Elmdale and Eastwood avenues, White-		
hall and Cleveland streets	2,980	60
Sewer in Linton and Robin streets	7	50
Amount carried forward	\$12,434	72

Amount brought forward	\$12,434	72
Sewer in Narragansett avenue and in right of way		
from city line to main trunk sewer	1,481	66
Sewer in Northup avenue, from Silver Spring	•	
street to the westerly line of Edwards street	1,665	17
Sewer in Reservoir and Adelaide avenues	•	00
Sewer in Reynolds avenue, Wadsworth and Grand		
streets	20	50
Sewer in right of way, from Valley street to the		
Woonasquatucket river	1,159	09
Sewer in Rochambeau avenue, from Hope street		
westerly to end of present sewer in Rocham-		
beau avenue	1,240	92
Sewer in Thayer, Manning and Brook streets	58	50
Sewer in Unit street, from Chalkstone avenue to		
Maynard street	1,869	06
Sewer in Pleasant Valley Division, Section 31	12,931	
-		<b>\$</b> 32,866 58
For maintenance,		<b>*31,977 25</b>
,	•	451,011 25
Classified as follows:		
Cleaning basins and sewers	\$7,288	02
Repairing basins and sewers	3,250	
Cleaning and repairing old drains	1,139	
Tools	784	
Inspection of connections	693	08
Salary, superintendent	442	00
Sundries	417	09
Barn expenses	401	86
Horses, wagons, harnesses, etc	140	72
Office expenses	94	81
Cleaning private connections	62	80
Telephone lines	35	93
Car fares	10	00
Filling cisterns, etc		00
Repairs on gate house	5	40
ERNEST STREET STATION.		
Coal and wood	1,220	23
Engineers	901	
Cleaning screens	768	88
Firemen	432	46
Cleaning and repairing pumps	303	29
Supplies	253	19
Amount carried forward	\$18,653	30

18 CITY DOCUMENT.		[No. 19
Amount brought forward	\$18,653 <b>30</b>	
Repairs on engines	145 66	
Care of grounds	136 13	
Repairs on boilers	89 #8	
Lights	19 <b>0</b> 8	
Care of buildings	6 42	
SEWAGE PRECIPITATION TAN	KS.	
Chemicals	4,731 14	
Labor in sludge disposal	2,640 00	
Miscellaneous supplies	2,392 01	
Labor on sewage precipitation	1,556 95	
Electrical power	571 50	
Repairs on machinery	361 16 367 88	
Fuel	289 61	
Lights	19 74	
Repairs on buildings	9 11	
	\$31,977 25	
The net expenditure for maintenance of sewers ber 30, 1905, inclusive, was	to Septem-	
ber 30, 1905, inclusive, was	to Septem- rer	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was	to Septem- rer	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was	rer	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was	to Septem- rer	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was	s to Septem- rer 30,  \$629 23 345 90 65 50	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was	\$639 23 345 90 65 50	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was  The net expenditure for maintenance of sewers ber 30, 1905, inclusive, was  Bills deposited with the city treasu for collection from July 1 to September 1905, inclusive, amounted to  As follows:  Sale of old metals  Miscellaneous work  Cleaning private connections.  Pumping out mine for the Rhode Island Graphite Company	s to Septem- rer 30,  \$629 23 345 90 65 50	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was	3639 28 345 90 45 00	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was  The net expenditure for maintenance of sewers ber 30, 1905, inclusive, was  Bills deposited with the city treasu for collection from July 1 to September 1905, inclusive, amounted to  As follows:  Sale of old metals  Miscellaneous work  Cleaning private connections.  Pumping out mine for the Rhode Island Graphite Company  Pumping out cellar	3629 23 345 90 45 00 7 00	
ber 30, 1905, inclusive, was  The net expenditure for maintenance of sewers ber 30, 1905, inclusive, was  Bills deposited with the city treasu for collection from July 1 to September 1905, inclusive, amounted to  As follows:  Sale of old metals  Miscellaneous work  Cleaning private connections  Pumping out mine for the Rhode Island Graphite Company  Pumping out cellar  Private sewer for Queen Dyeing Company	\$629 23 345 90 45 90 7 00 1,078 04	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was  The net expenditure for maintenance of sewers ber 30, 1905, inclusive, was  Bills deposited with the city treasu for collection from July 1 to September 1905, inclusive, amounted to  As follows:  Sale of old metals  Miscellaneous work  Cleaning private connections  Pumping out mine for the Rhode Island Graphite Company  Pumping out cellar  Private sewer for Queen Dyeing Company  Sewer material	\$629 23 345 90 45 90 7 00 1,078 04 318 52	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was  The net expenditure for maintenance of sewers ber 30, 1905, inclusive, was  Bills deposited with the city treasu for collection from July 1 to September 1905, inclusive, amounted to  As follows:  Sale of old metals  Miscellaneous work  Cleaning private connections  Pumping out mine for the Rhode Island Graphite Company  Pumping out cellar  Private sewer for Queen Dyeing Company  Sewer material  Laying drains to curbstone	\$629 25 345 90 45 90 7 90 1,078 94 318 52 15 96 \$2,505 15	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was  The net expenditure for maintenance of sewers ber 30, 1905, inclusive, was  Bills deposited with the city treasu for collection from July 1 to September 1905, inclusive, amounted to  As follows:  Sale of old metals  Miscellaneous work  Cleaning private connections  Pumping out mine for the Rhode Island Graphite Company  Pumping out cellar  Private sewer for Queen Dyeing Company  Sewer material  Laying drains to curbstone  During the quarter, coupons from be	\$639 23 345 90 45 50 45 00 7 00 1,078 04 318 52 15 96 \$2,505 15	<b>\$1,941,784</b> 1
ber 30, 1905, inclusive, was  The net expenditure for maintenance of sewers ber 30, 1905, inclusive, was  Bills deposited with the city treasu for collection from July 1 to September 1905, inclusive, amounted to  As follows:  Sale of old metals  Miscellaneous work  Cleaning private connections  Pumping out mine for the Rhode Island Graphite Company  Pumping out cellar  Private sewer for Queen Dyeing Company  Sewer material  Laying drains to curbstone  During the quarter, coupons from be collected have been returned by the collected services.	\$629 23 345 90 65 50 45 00 7 00 1,078 04 318 52 15 96 \$2,505 15	<b>\$1,941,78</b> 4
ber 30, 1905, inclusive, was  The net expenditure for maintenance of sewers ber 30, 1905, inclusive, was  Bills deposited with the city treasu for collection from July 1 to September 1905, inclusive, amounted to  As follows:  Sale of old metals  Miscellaneous work  Cleaning private connections  Pumping out mine for the Rhode Island Graphite Company  Pumping out cellar  Private sewer for Queen Dyeing Company  Sewer material  Laying drains to curbstone  During the quarter, coupons from be	\$639 23 345 90 65 50 45 00 7 00 1,078 04 318 52 15 96 \$2,505 15	<b>\$1,941,78</b> 4

As follows:		
Sale of old metals	<b>\$</b> 629	23
Miscellaneous work	361	09
Cleaning private connections	64	50
Pumping out mine for the Rhode Island Graphite Company	45	00
Sale of old filter cloth		00
Pumping out cellars		00
Private sewer for the Queen Dyeing Company	1,078	01
Sewer material	316	
Laying drains to curbstone	. 15	96
	\$2,552	04
The amount of bills approved on acche fiscal year ending September 30, 190 follows:		
For construction,	•	<b>\$131,004</b> 56
Charged as follows:		
Material	\$24,703	27
Additional catch-basins	3,425	
Contract reservations	2,992	00
Sundries	1,825	
Testing cement	1,147	
Tools	120	14
Sewer in Admiral street, from Hillwood to end of	1.000	. 40
present sewer in Admiral  Sewer in Alverson, Eastwood, Laurel Hill and	1,089	42
Hartford avenués	21,759	68
Sewer in Barre street, from Grove to about 1,300	,	
feet northerly, also westerly through right of		
way across tracks of N. Y., N. H. and H. R. R.		
Company to Harris avenue	1,002	98
Sewer in Blackstone boulevard, west side, from		
north line of Glen avenue, southerly to present	92	2 82
end of sewer		16
end of sewer	9 249	10
end of sewer	3,543	
end of sewer	3,543	
end of sewer	·	. 22
end of sewer	·	- 22
end of sewer	·	

Amount brought forward	<b>\$</b> 66,912	91
Sewer in Elmdale and Eastwood avenues, White- hall and Cleveland streets	3 <b>,2</b> 61	69
Sewer in Everett avenue, from Arlington to Elm- grove	1,752	75
the river	1,870 1,153	
Sewer in Narragansett avenue and in right of way from city line to main trunk sewer	3,179 308	
Sewer in Ninth and Pettis streets	177	
street to the westerly line of Edwards street.  Sewer in Reservoir and Adelaide avenues  Sewer in Reynolds avenue, Wadsworth and Grand	1,665 2,057	
streets	1,566	
Woonasquatucket river  Sewer in Rochambeau avenue, from Hope street westerly to end of present sewer in Rocham-	3 <b>,563</b>	60
beau avenue	1,544 103	76
Sewer in Thayer, Manning and Brook streets Sewer in Unit street, from Chalkstone evenue to Maynard street	17,380	
Sewer in Veazie street, from near Douglas avenue to Branch	3,759	65
Sewer in Pleasant Valley Division, Section 31	18,788 \$131,004	<del></del>
For maintenance,		<b>*116,911</b> 40
Classified as follows:		
Cleaning basins and sewers	\$26,078 11,631	
Cleaning and repairing old drains	4,187	
Inspection of connections	2,710	22
Tools	2,292	
Salary, superintendent	1,772	
Barn expenses	1,704	
Horses, wagons, harnesses, etc	1,294	
Sundries	1,291 900	
Use of water	900 259	
Amount carried forward	\$51,143	54

34,143	54
190	80
143	72
50	00
12	00
9	53
5	40
4,988	01
3,248	
2,621	64
1,692	25
1,500	42
1,483	90
999	78
595	04
377	26
125	78
103	08
82	87
19,893	29
9,633	61
5,723	52
4,832	04
2,211	25
693	47
554	60
481	67
392	24
120	48
6,911	40
	6,911

#### HIGHWAYS.

July 1st, the proposal of the Norcross Brothers Company to furnish and deliver at the cty yard 15,000 granite blocks at \$54.00 per thousand, was accepted.

July 21st, the proposal of the Connecticut Trap Rock Quarries to furnish and deliver at the city yard 3,000 tons of crushed stone at \$1.20 per ton, was accepted and the order subsequently extended to 7,000 tons.

July 28th, the proposal of Smith Granite Company to furnish and deliver at the city yard 7,500 granite blocks at \$1.50 per square yard, was accepted.

August 8th, a schedule of unpaid curbing bills amounting to \$7,962.52 was certified to the assessors of taxes for collection.

August 12th, the proposal of Gaetano Cardarelli to furnish and deliver paving blocks at the city yard for \$1.25 per square yard, was accepted.

September 27th, the proposal of Crabtree and Havey to furnish and deliver at the city yard two cargoes of curbing at 55 cents per linear foot, was accepted.

During the quarter the following work was completed:

SIDEWALKS CURBED AND GUTTERS PAVED.

Oct. 20, 1904, Grand street, from Potters avenue to Huntington.

Mch. 16, 1905, Elmdale avenue, from Whitehall street to Webster avenue. Date of order.

Mch. 16, 1905, Whitehall street, from Wallace to Union avenue.

- " " Moulton street, from Westminster to Bewet.
- April 20, 1905, Reynolds avenue, from Prairie to Burnside street.
  - " " Linton street, from Academy avenue to Cunton street.
  - " " Robin street, from Berkeley to Regent avenue.
- May 18, 1905, Eastwood avenue, from Ralph street to Laurel Hill avenue.
  - " " Cleveland street, from its easterly termination to Laurel Hill avenue.
  - " " Wadsworth street, from Sorrento to Cranston.

The following work was in progress September 30, 1905:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

June 16, 1904, Barre street, from Ridge to Bell.
"" Bell street, from Barre to Eden.

REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

May 18, 1905, Hope street, from Rochambeau avenue to city line.

The following work, ordered by the board of aldermen and city council, had not commenced September 30, 1905, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

May 18, 1905, Narragansett avenue, from the city line northerly to a point about 120 feet north of Ardoene street.

\$85,72% 79 \$85,72% 76

Date of order.	
Sept. 21, 1905, Spencer street, from Alm " " Unit street, from Chalks nard street.	•
PAVE WITH GRANITE BI	ocks.
May 5, 1905, Sabin street, from West	Exchange to Aborn
REMOVE OBSTRUCTIONS, GRADE AN CONDITION.	D PUT IN GOOD
Sept. 21, 1905, Admiral street, from Hillwood street.	Douglas avenue to
Bills approved on account of highwa	nys
from July 1 to September 30, 1905, inc	elu-
sive, amounted to	. *112,325 83
Classified as follows:	
Cleaning streets	<b>\$</b> 22,185 79
Repairs on unpaved streets	20,307 97
Crushed stone—material and labor	17,665 42
Stone—paving and crosswalk	7,154 80
Repairs on paved streets	5.742 71
Blacksmith and wheelwright shop	2,775 36
Barn expenses	2,343 56 1,972 90
Watering streets	1,972 90
Steam rollers—repairs and supplies	1,092 67
Labor on material	826 52
Repairs on stone crushers	769 55
Tools, implements, etc	716 01
Superintendent's salary	476 00
Watchman at city yard	
Office expenses, city yard	125 34
Building driveways, etc	111 53
Fencing streets—material and labor Sundries	79-50 77-56
Car fares	35 00
Telephone lines	5 60
Repairs on buildings, highway yard	98
	885 725 79

Amount carried forward.....

**\$85,728** 79

- ₩5,517-48

Amount brought forward.....

#### NEW WORK - BUILDING AND REBUILD-ING STREETS, ETC. SIDEWALKS CURBED AND GUTTERS PAVED. Cleveland street, from its easterly termination to \$892 36 Laurel Hill avenue.... Eastwood avenue, from Ralph street to Laurel Hill avenue..... 1,434 89 Elmdale avenue, from Whitehall street to Webster 2,185 90 avenue..... 54 30 Everett avenue, from Arlington to Elmgrove...... Grand street, from Potter avenue to Huntington... 793 71 Laban street, from Laurel Hill avenue to Merino 81 74 street..... Linton street, from Academy svenue to Canton 147 00 Moulton street, from Westminster to Bewet...... 1.011 03 1,189 87 Reynolds avenue, from Prairie to Burnside street... 3 00 Robin street, from Berkley to Regent avenue...... Wadsworth street, from Sorrento to Cranston..... 1,244 86 Whitehall street, from Wallace to Union avenue... 2,230 98 11,269 64 PAVE WITH ASPHALT. Wyeth street, from South Main to South Water .... 9 45 GRADE AND PUT IN SAFE CONDITION. 10 00 Charles street, from Hagan to the city line..... REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION. Idmiral street, from Douglas avenue to Hillwood \$534 04 street..... lope street, from Rochambeau avenue to the city 14,773 91 line..... 15,307 95 \$112,325 83 Bills deposited with the city treasurer or collection from July 1 to September 30,

1 905, inclusive, amounted to .

As follows:			
Labor and material	\$4,346	58	
ments	673	15	
Boarding horses for other departments	182		
Street sweepings	152		
Building driveways, etc	79	93	
Manure from barn	70	00	
Discharging cargo at city wharf	7	50	
Empty oil barrels	5	60 	
	<b>\$</b> 5,517	48	
During the quarter, coupons from be collected have been returned by the c	ity		
treasurer and receipted for to the amount	of	<b>₹</b> 5,479	36
As follows:			
Labor and material	\$4,302	61	
ments	571	20	
Building driveways, etc	191	05	
Boarding horses for other departments	182	72	
Street sweepings	138		
Manure from barn	• •	00	
Use of steam roller		53	
Discharging cargo at city wharf		50 —	
	\$5,479	36	
Bills approved on account of highwa	•		
for the fiscal year ending September	30,		
1905, inclusive, amounted to:			
Regular appropriation,		\$330,504	82
Classified as follows:			
· Cleaning streets	\$64,697		
Repairs on unpaved streets	61,904		
Crushed stone — material and labor	55,261		
Removing snow and ice	19,114		
Stone – paving and crosswalk	14,959 14,575		
Blacksmith and wheelwright shop	12,080		
Barn expenses	10,194		
Amount carried forward	\$252,787	44	

Amount brought forward	<b>\$252,787 44</b>	
Repairs on stone crushers	6,474 54	
Steam rollers — repairs and supplies	5,544 03	
Labor on material	4,517 55	•
Tools, implements, etc	3,573 42	
Watering streets	3,284 04	
Horses, wagons, harnesses, etc	3,236 34	
Superintendent's salary	1,772 86	
Repairs on buildings, highway yard	683 38	
Watchman at city yard	626 11	
Building driveways, etc	502 06	
Sundries	380 17	
Office expenses, city yard	283 93	
Fencing streets — material and labor	223 88	
Car fares	110 00	
Telephone lines	22 15	
Zerephone integral		\$284,021 90-
New Work — Building and	REBUILI	<b>)-</b>
ing Streets, etc.		
SIDEWALKS CURBED AND GUTTERS	PAVED.	
Algonquin street, from Crescent to Reservoir avenue	<b>\$44</b> 69	
Cleveland street, from its easterly termination to		
Laurel Hill avenue	892 36	
Eastwood avenue, from Laurel Hill to Merino street	1,287 02	
Eastwood avenue, from Ralph street to Laurel Hill	-	
avenue	1,434 89	
Elmdale avenue, from Whitehall street to Webster	•	
avenue	2,287 60	
Everett avenue, from Arlington to Elmgrove	3,372 51	
Grand street, from Potter avenue to Huntington	1,539 09	
Laban street, from Laurel Hill avenue to Merino		
street	1,769 02	•
Linton street, from Academy avenue to Canton	-,	
street,	1,275 36	
Moulton street, from Westminster to Bewet	1,011 03	
Nebraska street, from Eddy to Rugby	817 86	
Ninth street, from North Main to Highland avenue	1,541 77	
Reservoir avenue, west side, from Algonquin street	_,	
to Crescent	1,338 90	
Reynolds avenue, from Prairie to Burnside street	1,341 57	
Robin street, from Berkley to Regent avenue	1,001 26	
Rosedale street, from Messer to Ellery	212 09	
Tiber street, from Ridge to Swiss	393 24	
University avenue, from Elmgrove to Slater	375 34	
Wadsworth street, from Sorrento to Cranston	1,244 86	
Whitehall street, from Wallace to Union avenue	2,230 98	
whitehall street, from wanace wouldnavenue	2,230 98	25,411 44
Amount carried forward		\$309,433 34

#### CITY DOCUMENT.

[No. 19.

\$309,433 34		Amount brought forward
	١.	PAVE WITH GRANITE BLOCKS
2,013 3		Federal street, from Broadway to Bradford street
		PAVE WITH ASPHALT.
337 45		Wyeth street, from South Main to South Water
	rion.	GRADE AND PUT IN SAFE CONDI
3,254 3		Charles street, from Hagan to city line
ITION.	Gоор Сомр	REMOVE OBSTRUCTIONS, GRADE AND PUT IN
	\$534 04	Admiral street, from Douglas avenue to Hillwood street
15,465 96	14,931 86	Hope street, from Rochambeau avenue to city line.
\$330,504 85		·

#### SIDEWALKS AND CURBING.

Charged as follows:

Granite curbing	-	
Concreting sidewalks		
•	<b>84 30</b> 9	<u></u>

#### As follows:

Granite curbing.  Repairing sidewalks and gutters	83	28
	\$632	

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$**967 39

#### As follows:

Curbing bills	\$546	71
Granite curbing	3:12	47
Concreting sidewalks	19	28
Repairing sidewalks and gutters	8	93
<del>-</del>	9087	

Bills approved on account of sidewalks and curbing for the fiscal year ending September 30, 1905, inclusive, amounted to

**\$15,742 48** 

#### Charged as follows:

Granite curbing	\$6,670	41
Concreting sidewalks	5,316	43
Repairing sidewalks and gutters	3,755	64
•	@15 749	48

## CITY ENGINEER.

Bills approved on account of the city engineer's department from July 1 to September 30, 1905, inclusive, amounted to \$12,326 71

# Charged as follows:

Salary — city engineer	\$1,125	00
Salaries of assistants	9,623	26
Salaries of clerks	789	75
Car fares	502	95
Supplies — drawing material, etc	248	98
Telephone lines	25	70
Instruments and repairs	6	22
Sundries	4	85

\$12,326 71

Bills approved for account of ci engineer's department, for the fiscal ye ending September 30, 1905, inclusive	ar	
amounted to		<b>\$</b> 49,95 <b>8</b> 68
Charged as follows: Salary — city engineer	84,500	œ
Salaries of assistants.	40,434	
Salaries of clerks	3,177	
Car fares.	910	
Supplies — drawing material, etc	764	
Telephone lines	97	
Instruments and repairs		22
Sundries		50
Meteorological instruments and repairs	••	05

#### BRIDGES.

\$49,953 68

July 12th, the proposal of Tank and McKinnon Construction Company to change and construct abutment walls and piers of Point street bridge, was accepted and a contract subsequently executed. Estimated amount of contract, \$61,543.00.

Bills approved on account of bridges from	
July 1 to September 30, 1905, inclusive,	
amounted to	<b>\$</b> 5,366 11
Charged as follows:	
Acorn street bridge	\$48 20
Barn expenses	98 86
Building at city yard	11 10
Burnside bridge	37 27
Car fares	25 00
Crawford street bridge	14 62

Amount carried forward.....

Francis street bridge	Amount brought forward	<b>\$</b> 235 05		
Saspee street bridge	Francis street bridge	70 62		
Seneva bridge				
Horses, wagons, harnesses, etc. 987	•			
Lumber, hardware, etc.       264 59         Manton bridge.       24 00         Manton avenue bridge.       2 75         Merino bridge.       13 75         Park street bridge.       94 66         Point street bridge.       951 81         Promenade street bridge.       343 81         Red bridge.       343 81         Repairs on city wharf.       67 98         Salaries — Point street bridge.       1,083 50         Salaries — Red bridge.       570 50         Salaries — Washington bridge       503 00         Sundries.       186 12         Telephone lines.       2 68         Tools.       95 76         Washington bridge.       625 36         Weybosset bridge.       44 33         \$5,366 11       35,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,       1905, inclusive, amounted to       \$26 5         As follows:       \$32 53         Sale of old lumber.       2 78         \$26 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:       \$32 60         Sale of old lumber.       \$12 25				
Manton bridge       24 00         Manton avenue bridge       2 75         Merino bridge       13 75         Park street bridge       84 66         Point street bridge       951 81         Promenade street bridge       74 31         Red bridge       343 81         Rent of keeper's house — Washington bridge       36 00         Repairs on city wharf       67 98         Salaries — Point street bridge       1,063 50         Salaries — Red bridge       570 50         Salaries — Washington bridge       553 00         Sundries       186 12         Telephone lines       2 68         Tools       95 76         Washington bridge       625 36         Weybosset bridge       44 33         Stj. 366 11       35,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,       1905, inclusive, amounted to       \$25 36         As follows:       \$25 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:       \$32 53         Sale of old lumber       \$12 25         Sale of old lumber       \$12 25          Read of	, , , ,			
Manton avenue bridge       2 75         Merino bridge       13 75         Park street bridge       84 66         Point street bridge       951 81         Promenade street bridge       74 31         Red bridge       343 81         Rent of keeper's house — Washington bridge       36 00         Repairs on city wharf       67 98         Salaries — Point street bridge       1,083 50         Salaries — Washington bridge       553 00         Salaries — Washington bridge       553 00         Sundries       2 68         Tools       95 76         Washington bridge       625 36         Waybosset bridge       44 33         \$5,366 11       Bills deposited with the city treasurer for collection from July 1 to September 30,         1905, inclusive, amounted to       \$26 5         As follows:       \$26 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:       \$26 53	·			
Merino bridge       13 75         Park street bridge       84 66         Point street bridge       951 81         Promenade street bridge       74 31         Red bridge       343 81         Rent of keeper's house—Washington bridge       36 00         Repairs on city wharf       67 98         Salaries—Point street bridge       1,083 50         Salaries—Red bridge       570 50         Salaries—Washington bridge       553 00         Sundries       2 68         Tools       95 76         Washington bridge       625 36         Weybosset bridge       44 33         \$5,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,         1905, inclusive, amounted to       \$25         As follows:         Sale of old lumber       \$12 25         Use of sounding rod, etc       11 50         Miscellaneous work       2 78         \$26 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:       \$36 old lumber       \$23 7				
Park street bridge       84 66         Point street bridge       951 81         Promenade street bridge       74 31         Red bridge       343 81         Rent of keeper's house — Washington bridge       36 00         Repairs on city wharf       67 98         Salaries — Point street bridge       1,083 50         Salaries — Red bridge       570 50         Salaries — Washington bridge       553 00         Sundries       186 12         Telephone lines       2 68         Tools       95 76         Washington bridge       625 36         Weybosset bridge       44 33         \$5,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,         1905, inclusive, amounted to       \$25 36         As follows:         Sale of old lumber       \$12 25         Use of sounding rod, etc       11 50         Miscellaneous work       2 78         \$26 53         During the quarter, coupons from bills         collected have been returned by the city         treasurer and receipted for to the amount of       \$23 7         As follows:         Sale of old lumber       \$12 25				
Point street bridge		•-		
Promenade street bridge	S .			
Red bridge				
Rent of keeper's house - Washington bridge   36 00				
Repairs on city wharf.       67 98         Salaries — Point street bridge       1,083 50         Salaries — Red bridge       570 50         Salaries — Washington bridge       553 00         Sundries       186 12         Telephone lines       2 68         Tools       95 76         Washington bridge       625 36         Weybosset bridge       44 33         \$5,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,         1905, inclusive, amounted to       \$26 5         As follows:       \$12 25         Use of sounding rod, etc       11 50         Miscellaneous work       2 78         \$26 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:       \$32 65				
Salaries — Point street bridge				
Salaries — Red bridge       570 50         Salaries — Washington bridge       553 00         Sundries       186 12         Telephone lines       2 68         Tools       95 76         Washington bridge       625 36         Weybosset bridge       44 33         \$5,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,         1905, inclusive, amounted to       \$26 5         As follows:         Sale of old lumber       \$12 25         Use of sounding rod, etc       11 50         Miscellaneous work       2 78         \$26 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:       \$32 65         Sale of old lumber       \$12 25				
Salaries — Washington bridge       553 00         Sundries       186 12         Telephone lines       2 68         Tools       95 76         Washington bridge       625 36         Weybosset bridge       44 33         \$5,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,         1905, inclusive, amounted to       \$26 5         As follows:         Sale of old lumber       \$12 25         Use of sounding rod, etc       11 50         Miscellaneous work       2 78         \$26 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:         Sale of old lumber       \$12 25				
Sundries       186 12         Telephone lines       2 68         Tools       95 76         Washington bridge       625 36         Weybosset bridge       44 33         \$5,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,         1905, inclusive, amounted to       \$26 5         As follows:         Sale of old lumber       \$12 25         Use of sounding rod, etc       11 50         Miscellaneous work       2 78         \$26 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:       \$32 7         Sale of old lumber       \$12 25	Salaries — Neu bridge			
Telephone lines       2 68         Tools       95 76         Washington bridge       625 36         Weybosset bridge       44 33         \$5,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,         1905, inclusive, amounted to       \$12 25         As follows:       \$12 25         Use of sounding rod, etc       11 50         Miscellaneous work       2 78         \$26 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:         Sale of old lumber       \$12 25				
Tools       95 76         Washington bridge       625 36         Weybosset bridge       44 33         \$5,366 11         Bills deposited with the city treasurer for collection from July 1 to September 30,         1905, inclusive, amounted to       \$26 5         As follows:         Sale of old lumber       \$12 25         Use of sounding rod, etc       11 50         Miscellaneous work       2 78         \$26 53         During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of       \$23 7         As follows:       \$32 5         Sale of old lumber       \$12 25				
Washington bridge				
#26 5  Bills deposited with the city treasurer for collection from July 1 to September 30, 1905, inclusive, amounted to				
Bills deposited with the city treasurer for collection from July 1 to September 30, 1905, inclusive, amounted to	č č			
Bills deposited with the city treasurer for collection from July 1 to September 30, 1905, inclusive, amounted to	Weybosset bridge	44 33		
As follows:  Sale of old lumber	for collection from July 1 to September 30			-
Sale of old lumber	1000, merusive, amounted to		<b>\$</b> 26	<b>.</b>
Use of sounding rod, etc		•	<b>*</b> 26	Ð
Use of sounding rod, etc	As follows:	•	<b>*</b> 26	Э
Miscellaneous work		\$12 25	<b>*</b> 26	Э
During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of  As follows:  \$12.25	Sale of old lumber	-	<b>*</b> 26	Э
collected have been returned by the city treasurer and receipted for to the amount of \$23.7  As follows:  \$12.25	Sale of old lumber	11 50	<b>*</b> 26	ð
collected have been returned by the city treasurer and receipted for to the amount of \$23.7  As follows:  \$12.25	Sale of old lumber	11 50 2 78	<b>*</b> 26	9
treasurer and receipted for to the amount of \$23.7  As follows:  \$12.25	Sale of old lumber	\$26 53	<b>*</b> 26	9
As follows:  Sale of old lumber	Sale of old lumber	11 50 2 78 \$26 53	<b>*</b> 26	3
Sale of old lumber         \$12.25	Sale of old lumber. Use of sounding rod, etc	11 50 2 78 \$26 53	•	
	Sale of old lumber. Use of sounding rod, etc	11 50 2 78 \$26 53	•	
	Sale of old lumber.  Use of sounding rod, etc	11 50 2 78 \$26 53	•	
or or someting rott, etc	Sale of old lumber. Use of sounding rod, etc	11 50 2 78 \$26 53 \$8 59 59	•	
	Sale of old lumber. Use of sounding rod, etc	11 50 2 78 \$26 53 \$8 59 of	•	

25

Bills approved on account of bridges i	or	
the fiscal year ending September 30, 190		
inclusive, amounted to	*	827,44
Charged as follows:		
Acorn street bridge	\$73	08
Barn expenses	423	81
Branch avenue bridge	-28	80
Building at city yard	12	18
Burnside bridge	37	27
Car fares	50	70
Contract reservation	70	00
Charles street railroad bridge	506	78
Crawford street bridge	87	84
Culvert across Allens avenue at Burgess cove —		
to build	746	79
Eagle street bridge	2	11
Exchange bridge	-	80
Francis street bridge	70	62
Gaspee street bridge	261	14
Geneva bridge	5	51
Horses, wagons, harnesses, etc		55
Lumber, hardware, etc	1,192	
Manton bridge	27	59
Manton avenue bridge		94
Merino bridge		<b>75</b>
Mill street bridge	_	40
Park street bridge		86
Point street bridge	1,976	
Promenade street bridge	74	
Randall street bridge		66
Red bridge	1,156	
Rent of keeper's house—Washington bridge	144	
Repairs on city wharf	8,395	
Salaries — Point street bridge	3,974	
Salaries — Red bridge	2,095	
Salaries — Washington bridge	2,108	
Smith street bridge		04
Smithfield avenue bridge	25	00

Sundries.....

Telephone lines.... Tools.
Washington bridge.
Washington row bridge.

Weybosset bridge.....

25 00 819 20

10 72

439 85 1,198 18 356 94

748 70

Bills approved for account of building		
the river walls between the Burnside and		
Exchange bridges from July 1 to September		
30, 1905, inclusive, have been paid from		
the special appropriation for that work, to		
the amount of	<b>\$521</b>	71
Bills approved for account of building		
the river walls between the Burnside and		
Exchange bridges for the fiscal year ending		
September 30, 1905, inclusive, amounted to	\$50,960	19
Bills approved for account of rebuilding		
abutments and piers, Point street bridge,		
from July 1 to September 30, 1905, inclu-		
sive, have been paid from the special appro-		
priation for that work, to the amount of .	. <b>\$128</b>	13
Bills approved for account of rebuilding		
abutments and piers, Point street bridge,		
for the fiscal year ending September 30,		
1905, inclusive, amounted to	<b>\$224</b>	50
2000 monday of managed to 1	#221	.,,

# PUBLIC LIGHTS.

Bills approved on account of the public lights from July 1 to September 30, 1905, . . . . \$71,034 58 inclusive, amounted to

Charged as follows:

Arc lights	<b>\$</b> 51,851	97
Incandescent lights	12,723	66
Welsbach lights	6,253	95
Salaries	205	00
	\$71.034	58

Bills deposited with the city treasurer for collection (for one common lantern and frame), from July 1 to September 80, 1905, inclusive, amounted to	
During the quarter, coupons from bills collected (for one common lantern and frame), have been returned by the city treasurer and receipted for to the amount of	<b>\$</b> 2 <b>00</b>
Bills approved on account of the public lights for the fiscal year ending September 30, 1905, inclusive, amounted to	<b>\$</b> 281,870 78
Charged as follows:	
Arc lights       \$205,589         Incandescent lights       50,834         Welsbach lights       24,654         Salaries       792	67 84

# PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from July 1 to September 30, 1905, inclusive, amounted to . . . .

**\$**5,033 6

\$281,870 78

#### Charged as follows:

Salaries of commissioner and secretary	\$1,850 00
Salaries of office assistants	3,009 26
Office supplies	154 43
Telephone lines	19 95
	\$5,033 64

Bills approved on account of the public works office for the fiscal year ending September 30, 1905, inclusive, amounted to

**\$20,843 20** 

#### Charged as follows:

Salaries of commissioner and secretary	<b>\$7,40</b> 0	00
Salary of office assistants	12,658	35
Office supplies	708	76
Telephone lines	76	09
-	\$20,843	20

# ABOLISHING GRADE CROSSING AT GROVE STREET, ETC.

Bills approved for account of building retaining walls, etc., on Barre street, from July 1 to September 30, 1905, inclusive, have been paid from the special appropriation for that work, to the amount of .

**\$14,104 82** 

Bills approved for account of building retaining walls, etc., Barre street, for the fiscal year ending September 30, 1905, inclusive, amounted to

**\$47,280 99** 

WALTER F. SLADE,

Commissioner.



LERLY REPORT

# of Public Works epartmen t

PROVIDENCE, R. I.

SING DECEMBER 41, 1905.



# NINETY-SECOND

# QUARTERLY REPORT

OF THE

# Department of Public W

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING DECEMBER 31, 19



Che Providence Oresa: SNOW & FARNHAM, CITY PRINTERS, 63 Washington Street.

1906.



# REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., January 2, 1906.

To the Honorable the City Council:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the ninety-second quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending December 31, 1905.

#### WATER WORKS.

October 27th, the proposal of Charles S. Bush Company to furnish and deliver, f. o. b. Providence, the laboratory apparatus and chemicals for the filtration plant at Pettaconset for the sum of \$576.94, was accepted.

November 9th, the proposal of Frederick E. Shaw to excavate and grade along the line of the new 42-inch leading main between Reservoir and Park avenues in Cranston, for the sum of 23 cents per cubic yard measured in excavation, was accepted and a contract subsequently executed.

November 10th, the proposal of J. W. Hunt and Company to furnish and install in the laboratory building at Pet-

taconset a hot water heating apparatus with the necessary piping and radiators for the sum of \$200.00, was accepted.

The proposal of the General Fire Extinguisher Company to furnish and install a hot water heating apparatus in the pump house of the filtration plant at Pettaconset for the sum of \$713.00, was accepted.

November 16th, the proposal of the Warren Foundry and Machine Company to furnish and deliver at the city yard 6,803 gross tons of cast iron water pipe at \$26.40 per ton of 2,000 pounds, was accepted and a contract subsequently executed. Amount, \$201,151.11.

November 27th, the proposal of A. S. Corr, of Phillipsburg, N. J., to inspect 6,803 tons of water pipe at the foundry of the Warren Foundry and Machine Company for the sum of \$680.30, was accepted.

November 29th, the proposal of John W. Lyon to furnish and deliver the taps and stops required during the year 1906, was accepted and a contract subsequently executed. Amount, \$1,804.65.

December 14th, the proposal of Fuller Iron Works to furnish and deliver at the city yard the special castings required during the year 1906, also to deliver along the line of the work the specials for the 42-inch leading main, was accepted and a contract executed. Amount, \$10,625.00.

The following proposals for furnishing and delivering water gates and hydrants at the city yard were accepted and contracts subsequently executed, namely:

Coffin Valve Company for 8-42-inch, 1-39-inch, 1-24-inch, 100-6-inch, and 12-4-inch water gates; amount, \$7,340-50. The Fairbanks Company for 3-16-inch, 10-12-inch, and 60-8-inch water gates; amount, \$1,487.00.

Ludlow Valve Manufacturing Company for 206-inch post hydrants with gates.

Amount, \$1,198,00.

December 21st, the proposal of Charles S. Bush Company furnish and install at Pettaconset a Couch & Seeley intercommunicating telephone system for the sum of \$723.00, was accepted.

The average daily consumption of water during the last quarter was 14,436,427 gallons, and the average daily consumption for the year 1905 was 14,513,029 gallons.

Water pipes were laid during the quarter as follows:

## 8-INCH. In Admiral street; Arlington and Kinsley avenues; in Smith street and River avenue in the town of North Providence..... 1,633.78 feet. In Saxon court; Abram, Blundell, Fourth, Grandview, Ivy, Merino, Portland, Seamans, Waverly, Whitehall, West streets; Arlington, Clarenden, Cole, Lincoln and Sims avenues; in Selkirk and Windsor roads; Clarence, Fairview, Fenner, Governor, Gordon streets; Bayview, Fletcher and Grand avenues in the town of Cranston; and in Binghampton avenue in the town of Johnston..... 5.160.02 feet. 6,793.80 feet. Total..... or 1.286 + miles. Water pipes were removed during the quarter as follows: From Laurel street..... 34.30 feet. or .006+ mile. Statement of sizes and lengths of pipe laid since the commencement of the work: 4,979.49 feet.

36-inch ..... 10,207.57 feet. 30-inch ..... 61,328.30 feet. 24-inch ..... 43,293.86 feet.

20-inch ..... 9,626.59 feet. 33,812,95 feet. 12-inch ..... 110,835.37 feet. 15.057.14 feet. 8-inch ..... 295,639.93 feet. 

1,850,535.54 feet.

or, 350.480 + miles.

1

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch	4,207.46 feet
16-inch	23,004.37 feet
12-inch	2,215.76 feet.
Total	29,517.39 feet
or, 5.59 + miles.	

Eight fire hydrants have been set during the quarter, one in each of the following locations:

Clarence street, Cranston, northeast corner of Richards street.

Cole avenue, east side, 2 feet south of line of Clarendon avenue.

Gordon avenue, north side, 26 feet east of Mariborough avenue.

Hart street, north side, 1 foot east of east building line of Ivy street.

Kinsley avenue, south side, 318 feet east of Bagle street.

Sassafras street, north side, on west line of Savings street.

Selkirk road, east side, 65.5 feet north of Stratford road.

Waverly street, east side, 160.5 feet south of Union avenue.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and sixty-one — nineteen hundred and forty-nine flush, and one hundred and twelve post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and sixty-two water meters were set, of which number forty-five were to replace other meters. The use of nine meters was discontinued.

The following meters were in use at the close of the quarter:

					SIZE.					al.
KIND.	∯-in.	₫-in.	1-in.	1 <del>]</del> -in.	2-in.	3-in.	4-in.	6-in.	8-in.	Total.
Ball & Fitts	1,867	389	91	10	4					2,361
Ball & Fitts, rotary			4	6		2	1	a	*****	13
Crown	9,702	1,194	356	153	48	30	26	1	10.07	11,510
Empire	1,340	168	71	48	15	1	1			1,644
Fales, Jenks & Sons			1			*****			*****	1
Gem					15	29	18	3		65
Hersey	24	 								24
Nash	179		ļ							179
Thomson	4,667	423	74	54	22	7	7	2	non	5,256
Trident	   103	! <b>!</b>	1		 			ļ		104
Venturi		ļ	! :				ļ		1	1
	17,882	2,174	598	271	104	69	53	6	1	21,158

Three plumbers' licenses were issued during the quarter, making the total number one hundred and twenty-three, all of which expired December 31, 1905.

Eight hundred and seven permits to do plumbing work were issued during the quarter.

One hundred and seventy-three applications for water were made during the quarter, making the total number twentyseven thousand three hundred and sixty-seven.

The number of new service stops opened during the quarter was one hundred and seventy-two.

The total number of service stops opened to December 31, 1905, inclusive, was twenty-six thousand six hundred and eighty. The number in actual use December 31, 1905, was twenty-four thousand four hundred and eighty-two.

The following is a list of sprinkler hydrants for car sprink lers, namely:

Angell street, south side, 90 feet east of Wayland avenue, in sidewalk.

Bassett street, northwest side, 1051 feet southwest of Hoppin. Branch avenue, south side, 316 feet west of Woodward road, in sidewalk.

Camp street, east side, 125 feet north of Olney, in sidewalk.

Chalkstone avenue, northeast corner of Fallon, in sidewalk.

Dexter street, west side, 18 feet south of Cranston, in sidewalk.

Earl street, south side, 711 feet east of Bucklin.

Eddy street, west side, at Richmond, in street. Eddy street, west side, 5 feet south of north line of Washington avenue, in street.

Edna street, west side, 16 feet north of south line of car-house.

Elmwood avenue, east side, 85 feet south of Thackeray street.

Hope street, east side, 125 feet north of Barnes, in street.

Manton avenue, west side, 150 feet south of fire station, in sidewalk. Market square, north side, 24 feet east of Canal street, in street.

North Main street, west side, 182 feet north of White, in street.

North Main street, west side, 17 feet north of Livingtone, in street.

Orms street, south side, 23 feet east of Windsor, in sidewalk.

Randall square, east side, 32 feet north of Randall street, in street.

Richmond street, southwest side, 44 feet southeast of Pine, in sidewalk.

Silver Spring street, north side, 61 feet east of Charles.

Smith street, southwest side, 360 feet southeast of Hillton avenue, in

sidewalk.

Thurbers avenue, south side, 208 feet east of Broad street, in sidewalk. Wickenden street, south side, 167 feet west of Brook, in street.

Winter street, east side, 187 feet south of Pond, in sidewalk.

The following is a list of street sprinklers ready for use on the Providence water works, viz.:

Aborn street, near junction of Atwells avenue.

America street, near Atwells avenue.

Barton street, corner of Broadway.

Bradford street, near Broadway.

Branch avenue, near junction of North Main street. Benefit street, foot of Angell.

Benefit street, between North Main and Halsey.

Beacon avenue, near Friendship street.

Broad street, near Gallup.

Broadway, north side, west of Harris avenue.

Camp street, between Cypress and Larch.

Codding street, near Westminster. Cranston street, east side of railroad bridge.

Crary street, between Eddy and Hospital.

Cromwell street, near Dexter.

Daniel avenue, near Plainfield street.

Dexter street, opposite Division.

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Doyle avenue, near Hope street.
```

Doyle avenue, near North Main street.

Exchange place, west end.

Ford street, west of Cranston.

Garnet street, near Pine.

Governor street, near Waterman.

Greenwich street, corner Elmwood avenue.

Harris avenue, near Atwells.

Hope street, junction of Thayer. Hope street, corner of Wickenden.

John street, corner of Benefit.

Knight street, corner of Grove.

Laurel Hill avenue, near Plainfield street. Linden street, near Broad.

Manning street, near Brook.

Medway street, east of Wayland avenue.

Melrose street, near south corner of burying ground. Moore street, corner of Broad.

Morris avenue, north of Olney street.

North Main street, corner of Thomas.

North Main street, near Mill.

Olive street, east of Prospect.

Olney street, near Camp. Orms street, near Ormsbee avenue.

Oxford street, corner of Eddy.

Pocasset avenue, near Plainfield street.

Power street, west of Hope.

Promenade street, west of Gaspee.

Promenade street, west of Holden.

Promenade street, west of Steeple. Prospect street, corner of Bowen.

Public street, about 200 feet east of Temple.

Reservoir avenue, opposite Atlantic.

Roger Williams park, near Broad street (private).

Salem street, between Potters avenue and Benedict street

Smith street, near Oakland avenue. Smith street, near Schaffer.

Smithfield avenue, north of Branch.

Smithfield avenue, north of the Moshassuck river.

Transit street, between South Water and South Main.

Traverse street, corner of Pike.

Washington street, corner of Dean. Webster avenue, north of Progress.

West Friendship street, near Broad.

Weybosset street, opposite Abbott park place.

Willard avenue, west of Prairie.

Willow street, west of Messer.

Winter street, near Pond.

Woodland street, near Holden.

[N

ber	goxes psed.	DOCUM
ending December		To-
O.		-i
ling	User	45
	STOPS	- d
years,	- oc	+0.0
ye		- d

302 18,553 19,075 8.31, 9.919.9 247,740.08 22,928.69 5,021.8 3,834, 457.7 289,502.07 304,507.29 37,110.78 612 14,896 1,736 438 356 18,038 645 15,864 1,442 310 The following table shows the lengths, sizes, etc., of services laid during twenty-n 31, 1905: 13 TAPS USED. œġ. 636 -u m j 9,975.20 10,482.50 1,302.00 .... Totals, Trench- Paving,

LENGTH OF SERVICES IN FERT.

609.10 140.8 143.8 ......

9,081.50

inch. inch. inch. inch.

inch,

inch.

Sizes of Pipe.

YEAR.

9.919.0 266,821.68 23,637.00 6,102.0 3,977.8 467.7 290,477.27 314,989.79 38,412.78 401 15,432 1,789 401 306 18,049 640 16,141 141 319 319 19,118 19,118

The following table shows the lengths, sizes, etc., of services laid during the year ending Service Boxes Used. 1-99 53 638 42 52 625 NUMBER AND SIZE OF STOPS USED. E P \*\*\* 20 - 5 09 0 riv S 9 00 -9 약 02 28 563 82 8 8 13 13 To-88 603 25 99 E 611 NUMBER AND SIZE OF TAPS USED. 00 10 99 9 --00 13 m E 21 ė4 e4 22 93 **OR** ė9 œġ -61 [ 536 E 8 85 5 8 December 31, 1905: 1,302.0 Total Length of Pav-ing. 10,482.5 1,353.5 Total Length of Trench-ing. 1,193 827. 257 10 122 801 100 181 700 LENGTH OF SERVICES IN FRET. 440.1 1,737.1 1,139.6 9,975.2 Totals. 200. 291. 180 14 inch. 44.2 140.8 143.8 10 7 37 10 SIZE OF PIPE. 34.4 8.87 inch. inch. 35.4 26. 1.600 5.7 54 112. 167 6 228.5 8.050.1 8.040.1 1,208.1 40 1,587.1 9,081 605 689 463. November Totals..... January ..... MONTHS. December April. .... October March September February

Changes in size and location of services in 1905:

		Relaid.	. 4
ur əzis	drod ni s	Change local Related	H
lao ao	in locati	Срапко	2
wine		Chapm	1 22
		Paving	1,00
	·Suj	Ттепоћ	2,056.5 1,008.5 69 14 II. 4
		14 inch.	T
	ä	inch.	
P.E.	INSERTED.	inch.	200.8
AD Pr	N,	inch.	935.9
SIZES AND LENGTHS OF LEAD PIPE.		inch. inch. inch. inch.	66.6 1069.8 235.2 200.8 87.4
GTHS		14 inch.	9.99
D LEN		14 inch.	5 456. 935.4 133.4 41.8 48.6
ES AN	OUT	inch.	41.8
Six	TAKES OUT.	inch.	133.4
		inch.	935.4
		inch.	456.
		zh. inch.	9
	2	inch,	13
	INSERTED	inch.	n
Ĭ	×	inch.	3
STS CE		inch.	
TAPS AND STOPS.		inch.	*
1	1.1.	Inch.	25
	TAKEN OUT.	inch.	œ
	5	4	-

38 services have been removed. During the year 183 taps were repor 22 private taps were inserted.

The following table exhibits the number of service stops opened each month from

MONTHS. 1871, 1872, 1873, 1874, 1873, 1870, 1877	1871	1872.3	873	874.1	875 18	8761	877.1	878	879	1878 1879 1880 1881 1882 1883 1884	188	885	883 1	8841	1 288	1 988	1288	888	1 688	8901	1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1896 1896 1897 1898	892 1	893.1	1 168	895.1	8961	1 768	898 1	1899 1900 1901 1902 1903 1904 1905	300	9011	902 1	903	1 106	9
January	1	1 3	1 8	2	1 8	18	1 9	6	6	8	1 10	1 12	1 9	12	İ	18	92	1 1-	8	36	8	18	9	8	8	1 67	8	9	1 20	1 2	1 99	1 5	98	9	1 8
February	3	4.	18	18	t-	25	8	18	0	12	93	=	6	10	1-	15	1+	10	22	88	56	53	54	58	00	28	24	15	t-	12	10	18	56	61	=
March	1	88	3	63	£=	9	23	9	13	916	23	38	=	28	0	22	16	14	10	82	24	864	36	40	E.	30	27	46	28	30	150	33	32	23	20
April	Ť	109 109		108	32	108	80	200	22	89	22	40	123	8	87	89	09	88	19	3	65	92	12	92	150	001	20	23	69	47	133	73	09	89	8
May		224 206		147	162	168	136	96	98	#	99	72	28	63	62	19	70	22	14	99	114	22	16	81	92	86	88	15	22	09	19	65	0.1	91	03
June 329	:		202	121	172	148	114	103	11	601	58	8	3	18	81	20	29	98	20	98	22	103 106	7. 6	105 1	100	92	98	19	73	00	96	E	88	29	12
July	1	333	261	127	141	158	83	80	69	22	99	10	99	92	17	83	88	68	17	2.9	82	105	93	08	68	22	00	21	99	4	18	7	69	98	13
August 224	i	557	209	123	25	8	16	15	21	88	89	83	69	19	15	11	68	52	99	92	96	104 115		116	88	3	69	75	98	99	18	22	15	25	12
September 184 147	:	184		139	101	8	98	22	4	15	99	19	28	99	9	69	72	23	3	1:	88	114	88 1	112	20	17	19	23	23	16	23	99	22	19	99
October 138 135	:	138		160	8	84	8	30	62	2	19	26	4	19	2	25	80	0.2	3	21	104	102	96	82	96	02	62	47	35	129	99	53	88	99	2
November 100 104	:	100	104	185	98	Z	50	15	63	3	37	19	49	19	39	15	69	47	80	23	81	118	80	70	89	25	15	2	45	3	63	123	89	28	8
December, 56	28	83	5	122	9	18	20	46	1-	83	9	15	98	#	94	88	9	42	5	25	22	102	62	62	15	208	23	÷	40	99	7	4	63	19	8
Totals	95	56 1863 1596 1364	596.1	1	977 1068		9865	177	573	618	548	614	619 6	611 5	1 10	595	612 5	570	642 68	189	900	1014 902	1	884	168	1 47	869	392	908	162	8	919	1 610	1 00	272

60 04

\$767 28

\$64,233 55

[No. 4.

The amount of bills approved on acco	unt of	water works
from October 1, to December 31, 1905, i		
·		
For maintenance,	•	<b>\$98,324</b> 41
Classified as follows:		
PETTACONSET PUMPING STATE	OM.	
Installation of sand filtration plant at Pettaconset.	\$40,265	23
Coal and wood	8,133	
Sundries	1,877	20
Real estate	1,739	36
Lights	1,570	
Cornish engine house	1,057	
Firemen	717	
Engineers	614	96
Allis-Chalmers high-duty engine, to furnish and		
erect	497	
Superintendence	416	
Horses, wagons, harnesses, etc.	297	
Leading main from Sockanosset to city—to lay	286 124	
Oil, waste and packing	124	30
Sockanosset	94	38
Labor on fuel	89	
Corliss pumping engine and house		43
Barn expenses		97
Care of grounds		40
Worthington high-duty engine		13
Repairs on boilers	11	05
Cleaning beds at filtration plant	1,629	14
Labor, pumping at the filter beds	986	
Laboratory at the filtration plant-labor and sup-		
plies	763	49
Sand filtration plant for miscellaneous supplies	651	80
•		<b>\$</b> 62,071 72
Sockanosset Reservoir.		
Sundries	\$1,979	83
Watchman	182	
-		2,161 83
Hope Pumping Station.		
Firemen	\$408	24
Engineers	299	
Timber		04

Amounts carried forward.....

	<b>6</b> 64 000 E
Amounts brought forward	<b>\$</b> 64,233 5
ies	
pumping engine	
rs on boilers	794 3
Hope Reservoir.	
nuan	
ries	249 7
FRUIT HILL RESERVOIR.	
ries \$405 06	
hman	
	587 00
METER DEPARTMENT.	
meters \$4,801 36	
g and repairing meters	
	6,300 80
PIPE LINE AND SERVICE STOPS.	
rs \$4,884 88	
ction of pipe line and services	
intendence — salaries	
	7,130 43
• PIPE YARD.	
g water pipe \$2,425 16	
g service pipe	
e pipe 840 63	
d castings 673 32	
and stops 265 54	
252 64	
252 64       ydrants, boxes and covers.     146 45       alves.     126 13       on and carting pipe.     124 45	
252 64       ydrants, boxes and covers.     146 45       alves.     126 13       on and carting pipe.     124 45       ard, office expenses.     78 77	
252 64       ydrants, boxes and covers.     146 45       alves.     126 13       on and carting pipe.     124 45       ard, office expenses.     78 77       on water pipe.     39 90	
252 64       ydrants, boxes and covers.     146 45       alves.     126 13       on and carting pipe.     124 45       ard, office expenses.     78 77	<b>6,54</b> 3 32
252 64       ydrants, boxes and covers.     146 45       alves.     126 13       on and carting pipe.     124 45       ard, office expenses.     78 77       on water pipe.     39 90	6,543 32
252 64       ydrants, boxes and covers.     146 45       alves.     126 13       on and carting pipe.     124 45       ard, office expenses.     78 77       on water pipe.     39 90       's on pipe yard buildings.     27 98	6,543 32
252 64	6,543-32
252 64	<b>6,54</b> 3 32
252 64	6,543 32

[No. 4.

1

Town of North Providence tax	395 272	00 76
Telephone lines  Public drinking fountains and troughs		
T WOLLD STILL BE TOUR BUILD BUIL WOUNDS		<b>— \$12,485</b> 1
		\$98,334 4
The total expenditures to December	31,	
1905, inclusive, was	. \$10	,279,333 2
The net expenditure for maintenance from	October	1,
to December 31, 1905, inclusive, was		
The net expenditure for maintenance to Deceminclusive, was	-	-
•		
The value of the water works syst	æm	
January 1, 1905, as estimated by the		
engineer, was as follows:		
	<b>0</b> 040 404 4	<b></b>
Pettaconset pumping station		
I I	•	
Sockanosset, Hope and Fruit Hill reservoirs	699,014	74
Main lines and distribution pipes	2,717,611	60 <b>.</b>
Main lines and distribution pipes	2,717,611 ( 15,975 (	60 10
Main lines and distribution pipes	2,717,611 ( 15,975 (	60 10
Main lines and distribution pipes	2,717,611 ( 15,975 ( 35,113 (	60 . 10
Main lines and distribution pipes	2,717,611 ( 15,975 ( 35,113 (	60 . 10
Main lines and distribution pipes	2,717,611 ( 15,975 ( 35,113 (	60 . 00 01 - \$3,932,063 0
Main lines and distribution pipes	2,717,611 ( 15,975 ( 35,113 (	60 . 00 01 - \$3,932,063 0
Main lines and distribution pipes	2,717,611 ( 15,975 ( 35,113 (	60 . 00 01 - \$3,932,063 0
Main lines and distribution pipes	2,717,611 ( 15,975 ( 35,113 (	60 . 00 . — \$3,932,063 0 ÷88,879 34
Main lines and distribution pipes	2,717,611 ( 15,975 ( 35,113 ( arer ber	60 . 00 . — \$3,932,063 0 ∻88,879 34
Main lines and distribution pipes	2,717,611 (15,975 (35,113 (6))  10	60 • 100 11 12 13 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16
Main lines and distribution pipes	2,717,611 (15,975 (35,113 (6))  (rer ber .  \$81,080 (4,220 (1,338 (4)))	60 . 100 . 101 . 101 . 102 . 103 . 103 . 103 . 104 . 105 . 106 . 107 . 108 . 108 . 109 . 10
Main lines and distribution pipes	2,717,611 (15,975 (35,113 (6))  10	60 . 100 11 12 13 14 15 16 16 16 16 16 16 17 17 15
Main lines and distribution pipes	2,717,611 (15,975 (35,113 (6))  (rer ber .  \$81,080 (4,220 (1,338 (4)))	50 • 100 11 1 • \$3,932,063 0 12 18 18 18 16 16 17 17 18 18
Main lines and distribution pipes	2,717,611 (15,975 (35,113 (6 ) )	60 • 01  — \$3,932,063 0  ÷88,879 3÷ 66 60 64 17 75 60 10

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$**89,951 75

#### As follows:

Water	\$82,126	02	
Water meters	4,195	50	
Setting and repairing meters	1,750	40	
Labor and material, laying services, etc	1,569	58	
Repairs on pipe line	148	75	
Rent of real estate	100	50	
Penalties	34	00	
Permanently closing service stops	25	00	
Blue prints of water distribution	2	00	
•			

\$89,951 75

#### SEWERS.

During the quarter, ending December 31, 1905, three hundred and eighty-one permits were issued to drain-layers—one hundred and eighty-nine for new work and one hundred and ninety-two for extensions and repairs of drains.

Three drain-layer's licenses were issued during the quarter, making the total number one hundred and thirty-nine, all of which expire December 31, 1905.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

Ravine, Randolph and McCaughin streets, as a portion of Sec-	
tion 19	<b>\$1</b> 5 28
Barre street, from Grove 1,300 feet northerly, and in right of way	
to Harris avenue	4,235 98
	84 951 96

October 30th, the proposal of the New England Steam 3

Brick Company to furnish and deliver at the city yard 200,000 Barrington bricks at \$10,15 per M., was accepted.

December 8th, the proposal of William M. Harris, Jr., to furnish and deliver sewer pipe at the city yard, was accepted and a contract subsequently executed. Amount, \$6,580.20.

The following proposals were received and accepted, namely:

Henry S. Taft, for 75 catch-basin inlet stones, at \$4.70 each. Charles M. Kelly, for 75 catch-basin flagstones, at \$5.75 each.

December 14th, the proposal of Fuller Iron Works to furnish and deliver at the city yard the sewer castings required during the year 1906, was accepted and a contract subsequently executed. Amount, \$2,600.00.

December 21st, the following proposals were accepted for furnishing and delivering along the line of the work the cement required during the year 1906, and contracts subsequently executed, namely:

William M. Harris, Jr., for the Portland cement. H. R. Horton Co., for the rosendale cement.

SEWERS CONSTRUCTED TO DECEMBER 31, 1905, IN MILES.

ITEMS.	KIND.	Built previous to 1905.	Built during 1905.	Total to Dec. 31, 1905.
Under regular appropria-				
tion	Brick.	39.296	1.153	40.449
Under regular appropria-				
tion	Pipe.	132.764	2.026	131.790
Under improved sewerage				
appropriation	Brick and pipe.	28.388	•••••	28.388
Total miles of sewers		200.448	3.179	20.67

During the year, 90 catch-basins, 63 extra inlets, and 143 inholes have been built, making a total in use December, 1905, of 4,791 catch-basins, 1,658 extra inlets, and 8,775 inholes.

During the quarter, the construction of the following wers was completed, namely:

of resolution. Date of approval.

Date of completion

- 0. Feb. 7, 1905, Narragansett avenue, from
  city line northerly to point
  600 feet north of Roger
  Williams avenue; and in
  right of way easterly to
- the main trunk sewer, . Dec. 30, 1905.

  1. May 5, 1905, Blackstone boulevard,
  west side, from north
  line of Glen avenue
  - line of Glen avenue southerly to present end of sewer, . . . Oct. 16, 1905.
- 9. June 16, 1905, Northup avenue, from
  Silver Spring street to the
  wester/y line of Edwards
  street, . . . Oct. 7, 1905.
- 6. Sept. 12, 1905, Andem street, from Canton to Bergen, Dec. 7, 1905.
- 7. " " Grotto avenue, from

  Penrose to Irving, . . Nov. 11, 1905.

Work upon the following sewers, was in progress at the se of the quarter, namely:

of resolution. Date of approval.

- 8. Feb. 7, 1905, Pleasant Valley Division, Section 31.
- 0. May 5, 1905, Unit street, from Chalkstone avenue to Maynard street.

Work upon the following sewers, completing the work ordered by the city council, had not commenced December 31, 1905, namely:

No. of r	esolution	. Da	te of a	pproval.
288.	Sept.	12,		West River street, from Cross to Burke, and from West River street at Elk easterly through right of way about 530 feet to end of section 22 of the improved sewerage system.
409.	Dec.	8,	"	Dora street, from a point about 100 feet east of Webster avenue to Princilla ave- nue, and from a point about 100 feet east of Priscilla avenue to Whitehall street; and also in Wallace street, from Priscilla avenue to Whitehall street.
410.	**	"		Massie avenue, from Broad street to Baxter, in Baxter street from Massie avenue to its southerly termination: and in right of way from Baxter street to Oxford.
411.	**	••	••	Waverly street, from Cranston to Union avenue.
412.	••		••	Taber avenue, from Lloyd to President.
413.	• •	••	••	Dixon street, from Sanford avenue to Elmwood.
414.	44	••	••	Handy street, from Amherst to Amsterdam.
415.	4.	••	••	Endora street, from near Eddy to Post and in Poe street from near Rhodes to Public.
417.	••	••	••	Thayer street, from Barnes to Angell

(storm sewer).

31	800	ləp ta olduo	Total amou removed, yarda,	150	41.89	903.44	1,304.85	2,422.40	1,729.30	1,780.30	2,333.69	1,928.59	1,875.93	1,867.74	1,229.56	18,069.3
		BINB.	Deposit removed, cu yards.	362.82	:	655.11	1,033.55	2,193.15	1,363.41	1,548.30	1,884.59	1,548.33	1,646.54	1,615.06	896.82	11,738.28
		CATCH-BASINS.	Number cleaned.	373	:	202	593	1,360	918	1,170	1,194	1,131	1,369	1,324	88	10,902
		2	No. times examined.	-	:	-	-	-	63	-	6	-	-	-	-	13
N K			Desd Ends.			:	8	\$	:	:	52	106	ន	:	:	279
NEW WORK		SEWERS.	Deposit removed, cu. yards.	26.17	12.41	19.01	19.86	52.92	47.19	61.00	70.37	66.41	+0.14	32.63	<b>∓</b>	501.60
		SEV	Length in feet.	250	375	9,000	1,500	18,000	12,000	33,300	9,000	24,300	15,200	8,000	10,600	174,625
,	ļ		Number.	-	-	\$	21	8	8	Ξ	8	115	76	8	8	2
	:	SUMPS.	Deposit removed, cu, yards.	262.6	89. 88.	239.36	154.81	176.33	328.70	139.08	363.11	314.85	189.25	175.93	235.36	2,588.70
		ã	Number.	ន	Ç1	11	=	1-	=	•	12	2	۲-	ေ	g	127
		DITCHES.	Deposit removed, cu. yards.				13.89	:	:	:	15.62	:	:	43.52		. 73.03
			Length in feet.		:	:	175	:	i	:	376	:	:	162	:	1,312
1		OFEN	Уатрет.		:		-	:	:	:	က	:	:	*		œ
OLD WORK		SAND.	Deposit removed, cu. yards.		:	:	53.75	:	:	:		:		:	43.04	96.79
070	;	CAT	Number.	:	:	i	=	:	i	÷	:	:	_ <u>:</u>	:	6	8
		AINS.	Deposit removed, cu. yards,		:		29.00	:		31.92	:			:	:	60.92
	!	OLD DRAINS	Length in feet.		i		575	:	i	375	:	:	i	:		956
		0	Уатрет.	<u>Γ</u>	:		*	-		•	-:	_ : _	:	·:	-	· 1-
			Момтив.	January	February	March	April	May	June	July	August	September	October	November	:	Totals.

In addition to the accompanying form, the following work has been performed by the sewer maintenance department for the year 1905:

#### WORK ON SEWERS.

Examined 391 sewers for condition and deposit, and all slots, gats, and sumps forty-eight times. Replaced 133 manhole frames. 146 covers, and six track grates; also reset 371 manhole frames. Repaired seven gates in sewers, thirty-eight holes over sewers, thirty-four manholes bringing twelve to grade, thirteen house connections, twenty-two sewers, four precipitation tanks, two buildings at precipitation tanks, and shaft in west gate house. Cut in forty-one connections; removed roots from 144 sewers; flushed two drinking troughs, and set eleven bound stones. Set up hoisting engine at sump at brick station. Connected one basin on Dorrance street with river, and one hydrant with basin connection on Eddy and Blackstone streets. Pumped out sewer to make connection. Unloaded new engine for precipitation tanks. Painted sewer under bridge at Orms street. Put signs on two gate houses; put in one new track grate; painted two gate houses; altered two track grates, and carted press plates to precipitation plant.

#### Work on Basins.

Flushed 2,353 chutes and 4,600 traps in basins. Removed snow from 23,980 inlets, ice from 14,835 feet of gutters, and roots from four basin connections. Thawed out 1,358 chutes and traps. Replaced thirteen basin covers, four inlet stones, and one extra inlet frame and cover. Repaired sixty-four holes at basins, thirty chutes, twenty-four basins, and one sidewalk at basin. Reset sixty-three traps in basins. Put in forty-three extra traps. Built two basins and four chutes in place of old ones.

#### OLD WORK.

Repaired seven old drains and leveled forty-two dumps.

#### MISCELLANEOUS WORK.

Cleaned ninety-nine connections, charged \$233.25; and sewer on Rechambeau avenue for Charles Crankshaw, \$4.50; filled two cisterns \$4.00; gas tank for Providence Gas Company, \$63.92; and one tank for Builders' Iron Foundry, \$2.50. Repaired two sewers, \$20.25; wall for Mechanics Bank, \$6.75, and connection for John Deary, \$5.75. Pumpel out two cellars, \$12.30; one well, \$7.12, and mine for Rhode Island Graphite Company, \$45.00. Puddled ditch and supplied water for Providence Gas Company, \$195.57. Supplied water, etc., put in track grate for New York, New Haven and Hartford Railroad Company, \$96.43. Supplied water, etc., and altered manhole frames for Rhode Island Company, \$190.00. Altered manholes and basins for Brown & Sharpe Manufacturing Company, \$102.74. Flushed sewer and drove

piles for F. E. Shaw. \$1050. Put in connection for J. Hunt, Allens avenue, \$67.50. Built basin for M. J. Perry, \$44.00; Providence Dyeing Company. \$48.73; Curran & Burton, \$35.63. Cut in connection, \$3.25.

Sewer Construction Department: Built thirty-four chutes, twenty-five basins, five manholes, 416.41 feet of twelve-inch and 434.85 feet of eight-inch sewer. Took sounding; cleaned outlet to new sewer on Valley street; replaced twenty-one traps in basins; drove test-wells on Narragansett avenue, carted tools from same location and removed six inspectors' houses.

Water Maintenance Department: Supplied water on account of frozen services. Removed ashes nine times from Hope pumping station: repaired engines and floor and built coal-bin for same; also repaired drinking fountain, old drain at Sockanosset on account of forty-two-inch force main, and chimnies at Pettaconset and Sockanosset. Pounded and seeded banks at Hope, Sockanosset and Pettaconset. Cleaned engine room at Pettaconset pumping station, reservoir at Sockanosset, ditch on Reservoir avenue, basin at Pettaconset, and filtration tanks. Set bound stones; built five manholes over forty-two-inch force main and one at filtration tanks, and sprinkler box; also fired at Hope station.

For Highway Department: Altered manholes and basin on Admiral street and basin on Charles street; filled up old fire well on Fenner street; built eight chutes, 218 feet of twelve-inch and eighty-eight feet of fifteen-inch drain.

The amount of bills approved on account of sewers from October 1 to December 31, 1905, inclusive, was:

Material	<b>\$</b> 4,077	88
Contract reservations	970	00
Additional catch-basins	300	44
Sundries	285	66
Testing cement	285	00
Tools	6	00
Sewer in Andem street, from Canton to Bergen	764	67
Sewer in Blackstone boulevard, west side, from		
north line of Glen avenue, southerly to present		
end of sewer	734	08
Sewer in Grotto avenue, from Penrose to Irving	1,215	04
Sewer in Narragansett avenue, and in right of way		
from city line to main trunk sewer	7,444	
Amount carried forward	<b>\$16,083</b>	

Amount brought forward	\$16,983 37	
street to the westerly line of Edwards street Sewer in right of way, from Valley street to the	97 13	
Woonasquatucket river	213 50	
Maynard street	4,743 49 26,517 98	<b>\$47,68</b>
For maintenance,	. \$8	0,812
Classified as follows:		
Cleaning basins and sewers	\$5,750 86	
Repairing basins and sewers	2,283 73	
Cleaning and repairing old drains	930 75	
Use of water	900 00	
Inspection of connections	665 08	
Tools	497 11	
Salary, superintendent	442 00	
Barn expenses	404 69	
Sundries	388 98	
Horses, wagons, harnesses, etc	163 22	
Cleaning private connections	78 OO	
Office expenses	40 29	
Telephone lines	35 K.	
Car fares	20 00	
Repairs on gate house	6 55	
ERNEST STREET STATION.		
Coal and wood	1,286 47	
Engineers	839 88	
Cleaning screens	635 90	
Cleaning and repairing pumps	570 11	
Firemen	440 60	
Repairs on boilers	187 59	
Repairs on engines	138 65	
Supplies	107 04	
Care of grounds	63 32	
Care of buildings	44 10	
Lights	40 20	
SEWAGE PRECIPITATION TANKS	s.	
Chemicals	5,274 14	
Miscellaneous supplies	1,010 35	
Labor in sludge disposal	2,353 91	

Amount carried forward...... \$28,579 45

	-		
Amount brought forward	<b>\$</b> 28,579 4	5	
Labor on sewage precipitation	1,421 2		
Electrical power	636 7	5	
Repairs on machinery	66 6	2	
Fuel	43 5	_	
Lights	39 9	•	
Repairs on buildings	24 6	-	
	\$30,812	5	
The net expenditure for construction of sewers to 31, 1905, inclusive, was			05 66
The net expenditure for maintenance of sewers to			
31, 1905, inclusive, was			32 91
Bills deposited with the city treasur	no.m		
for collection from October 1 to December	er		
31, 1905, inclusive, amounted to .	•	<b>*1,647</b>	23
As follows:			
Miscellaneous work,	<b>\$547</b> 9	c	
Sale of old rubber and bronze	238 5		
Cleaning private connections	74 0	_	
Sewer material	780 3	6	
One set of sewer diagrams	4 0	0	
Testing cement	2 4	0	
_	\$1,647 2	3	
During the quarter, coupons from bi	lls		
collected have been returned by the ci			
treasurer and receipted for to the amount	of	<b>\$1,523</b>	26
As follows:			
Miscellaneous work	\$451 9	9	
Sale of old rubber and bronze	238 5		
Cleaning private connections	71 7		
Sewer material	754 6	1	
One set of sewer diagrams	4 0		
Testing cement	2.4	0	
-	<b>A1 7</b> 00 0	- 	

4

\$1,523-26

#### CITY DOCUMENT.

#### HIGHWAYS.

Three permits to open streets were issued during the quarter.

October 2d, the proposal of the Buffalo Steam Roller Company to furnish and deliver at the city yard, South Providence, one 15-ton Buffalo Pitts roller for the sum of \$3,500.00, with an allowance of \$1,250.00 for an old roller taken in exchange, was accepted.

October 12th, the proposal of the Taylor Iron and Steel Company to furnish and deliver certain repairs for the Gates crusher amounting to \$814.50, was accepted.

October 18th, the proposal of the Connecticut Trap Rock Quarries to furnish and deliver 500 tons of crushed stone at \$1.20 per ton, was accepted.

December 15th, the proposal of the Buffalo Steam Roller Company to furnish and deliver at the city yard one set of rear rolls for the Buffalo-Pitts roller, one set of front rolls for the Oastler roller, and 60 roller picks, all for the sum of \$775.00, was accepted.

Seven hundred and fifteen notices to build or repair sidewalks were served on the abutting owners during the year 1905. The work, including one hundred and four brought over from the preceding year, was done as follows:

By the abutting owners	(6.70)
By the city, at the expense of the abutting owners	70
Extension of time for doing work granted to	28
Work not done	71

The length of received streets December 31, 1905, was about 235.42 miles, measured on street lines and to street line intersection. But, as it is customary in street construction or street paving to complete the work to the curb line intersection, the lengths in the following tables are measured on those lines and sub-divided as follows:

Received streets	
Streets not curbed, but the roadway macadamized or	
graveled	
Streets paved	
Streets received, but not improved	
• •	
Total	241.48 miles.

The actual area of street pavement is 747,281 square yards. If this is estimated to an average width of roadway of 30 feet, it would be equal to 42.46 lineal miles, and is sub-divided as follows:

Granite blocks	31.41 miles.
Cobble	5.14 miles.
Asphalt	5.08 miles.
Vulcanite	.41 miles.
Brick	.42 miles.

In addition to the general patching necessary to maintain the streets in good repair, the following work has been done during the year ending December 31, 1905, namely:

New streets built	
Curbing set	
Streets rebuilt	
Streets resurfaced	
Streets graded	
Block pavement laid 6,337.10 yards.	
Cobble pavement laid	
Asphalt pavement 66.70 square yards.	
Asphalt pavement relaid 4,030.55 square yards	
Cobble pavement relaid 5,754.23 square yards.	
Block paving relaid 18,748.78 square yards.	
Brick paving relaid 88.66 square yards.	
Concrete sidewalks laid 1,110.50 square yards.	
Concrete sidewalks patched and top-dressed 1,835.10 square yards.	
Crushed stone used 58,730.10 tons.	
Screened gravel used 6,309. cubic yards.	

Of the above amount of pavement relaid, the cost of relaying 7,353.44 square yards, amounting to \$8,072.61, was paid by the corporations for which the work was done.

The following named streets aggregating 41.0 miles have been resurfaced during the year:

Academy avenue, from Atwells to Chalkstone. Admiral street, from Whipple to Charles. Allens avenue, from Rhodes street to Public. Alma street, from Candace to Pekin. Almy street, from Westminster to Broadway. Althea street, from Cranston to Union avenue. Amherst street, from Steuben to 100 feet easterly. Angell street from Hope to Taber avenue. Appleton street, from Delaine to Julian. Arlington avenue, from Lloyd to Angell street. Armstrong avenue, from Brook street to East. Arnold street, from Benefit to Hope. Atwood street, from Plainfield to McDonough. Audrey street, from Delaine to Bowdoin. Balaklava street, from Pekin to Douglas avenue. Barnes street, from Hope to Prospect. Beacon avenue, from Broad street to Friendship. Benevolent street, from Benefit to Thayer. Benevolent street, from Brook to Cooke. Bishop street from Plain to Willard avenue. Blackstone street, from Eddy to Allens avenue. Borden street, from Plain to Eddy. Broad street, from Friendship to city line. Brook street, from Meeting to Hope. Brownell street, from Holden to Francis. Burnside street, from Public to Thurbers avenue. Burrill street, from Weybosset to Westminster. Burrington street, from Dexter to Niantic avenue. Calhoun avenue, from Huntington to Clinton street. Callender street, from Mason to Fountain. Calverly street, from Promenade to Okie. Camden avenue, from Chalkstone to Vale street. Camp street from Doyle avenue to Rochambeau. Candace street, from Orms to Chalkstone avenue. Capron street, from Chaffee to Julian. Cedar street, from Acorn to Brayton avenue. Chalkstone avenue, from Smith street to Lisbon. Chapin avenue, from Messer street to Parade. Charles Field street, from Benefit to Thayer. Cherry street, from Jefferson to Davis,

Chester avenue, from Prairie to Milk street. Colfax street, from Broad to Rugby. Cottage street, from Dean to Lemon. Cushing street, from Prospect to Hope. Cypress street, from Elmgrove avenue to Cole. Dean street, from Westminster to Atwells avenue. Dexter street, from Burrington to Cranston. Douglas avenue, from Chalkstone to Orms street. Douglas avenue, from O'Neil street to Damon. Douglas avenue, from Branch to Geneva bridge. Dudley street, from Plain to Prairie avenue. Dudley street, from Myrtle to Friendship. Eagle street, from Valley to Kinsley avenue Eaton street, from Douglas avenue to 800 feet westerly. Eden street, from Bell to Broadway. Eighth street, from North Main to Summit avenue. Elmwood avenue, from Earl street to city line. Ernest street, from Eddy to Allens avenue. Euclid avenue, from Brook street to Thayer. Fenner street, from Westminster to Broad. Forest street, from Camp to Ivy. Francis street, from Gaspee to Brownell. Gallup street, from Broad to Rugby. Gano street, from India to Fremont. Gay street, from Dudley to Willard avenue. Gesler street, from Knight to Almy. Gifford street, from Whittier avenue to Laban street. Gordon avenue, from Public street to Oxford. Governor street, from Wickenden to Power. Greene street, from Westminster to Fountain. Greenwich street, from Public to Potter avenue. Hall street from Ledge to Northup avenue. Hamilton street. from Public to Ontario. Hannah street, from Amherst to Amsterdam. Harold street, from Valley to Allston. Hartford avenue, from Heath street to Killingly. Haskins street, from Broad to Lockwood. Hayes street. from Francis to Park. Haymarket street, from North Main to Canal. Hawkins street, from Charles to Branch avenue. Hawkins street, from Admiral to Salina. Heath street, from Eastwood avenue to Hartford. Henderson street from Eddy to Allens avenue. Hope street, from Hart to Forest. Hospital street. from Globe to Eddy. Inkerman street, from Candace to Pekin. Ives street, from Tockwotton to Pitman. Jewett street, from Holden to Park. John street, from Hope to Governor,

John street, from Brook to Roome lane. Killingly street, from Sunset avenue to Hartford. Knight street, from Westminster to Broadway. Kossuth street, from Putnam to Joslin. Lenox avenue, from Broad street to Emerson. Lester street, from Pearl to Harrison. Lexington avenue, from Melrose street to Hamilton. Linden street, from Broad to Pine. Linwood avenue, from Union to Cranston street.
Livingston street, from North Main to West River. Lloyd avenue, from Brown street to Hope. Lockwood street, from Hospital to Pine. Magee street, from George to Benevolent. Major street, from Broad to Central. Manton avenue, from Florence to King. McDonough street, from Atwood to Agnes. Meadow street, from Summer to Lockwood. Meeting street, from North Main to Benefit. Niantic avenue, from Walter street to Balch. Northup avenue, from Luna street to Silver Spring. Olive street, from Prospect to Thayer. Orms street. from Charles to Black. Osborne street, from Vale to Chalkstone avenue. Oxford street, from Prairie avenue to Gordon. Pallas street, from Vernon to Broadway. Parade street, from Hudson to Cranston. Park street, from Promenade to Smith. Parkis avenue, from Elmwood to Broad street. Pearl street, from Broad to Cranston. Pennsylvania avenue, from Prairie to Broad street. Plain street, from Bassett to Public. Pond street, from Fenner to Pearl. Pontiac street, from Reservoir avenue to city line. Potter avenue, from Calhoun to Dexter street. Potter avenue, from Elmwood to Niagara street. Prairie avenue, from Public street to Oxford. Printery street, from Randall to Livingstone. Promenade street, from Gaspee to Park. Public street, from Broad to Eddy. Public street, from Updike to Elmwood avenue. Putnam street, from Kossuth to Appleton. Reservoir avenue, from Elmwood to railroad bridge. Ridge street, from Tobey to Atwells avenue. River avenue, from Chalkstone to Allston street. Roanoke street, from Academy avenue to Mount Pleasant. Rochambeau avenue, from Summit to Hope street. Ruggles street, from Chad Brown to Chalkstone avenue. Sabin street, from Cope to Broadway. Sheldon street, from Brook to Hope.

Sims avenue, from Kinsley to Harris. Smith street, from Elmhurst to Academy avenue. Smith street, from Orms to Francis. Somerset street, from Providence to Prairie avenue. South street, from Eddy to the river. Sprague street, from Dexter to Elmwood avenue. Staniford street, from Bogman to Public. Stanwood street, from Hamilton to Public. Steuben street, from Manton avenue to Atwells. Summer street, from Westminster to Friendship. Sycamore street, from Westminster to Chapin avenue. Terrace avenue. from Union to Laurel Hill. Thayer street, from Angell to Manning. Thayer street, from Power to Transit. Thurbers avenue, from Prairie to Eddy street. Tobey street, from Ridge to Broadway. Transit street, from Brook to Mohawk alley. Trinity square, from Bridgham street to Somerset. Union avenue, from Whitehall street to railroad bridge. Vale street, from Danforth to Douglas avenue. Valley street, from Eagle to River avenue. Veazie street, from Douglas avenue to Douglas. Vernon street, from Vinton to Pallas. Vineyard street, from Carter to Potter avenue. Vinton street, from Carpenter to Atwells avenue. Waldo street, from Dexter to Salem. Waterman street, from Benefit to Hope. Wayland avenue, from Orchard to Waterman street. Webster avenue, from Pocasset to Union. West Clifford street, from Point to Somerset. Westfield street, from Harrison to Elmwood avenue. West Friendship street, from Broad to Elmwood avenue. West River street, from Corliss to Branch avenue. Whipple street, from Oregon to Admiral. Willard avenue, from Plain street to Eddy. Williams street, from Brook to Neighbors lane. Williams street, from Governor to Ives. Winslow street, from Broad to Weybosset. Woodward road, from Martin street to city line.

.68 miles of streets have been rebuilt during the year, namely:

Hartford avenue, from Olneyville square to Heath street. Major street, from Central to Broad. Manton avenue, from Delaine street to Tar bridge. West Clifford street, from Point to Somerset. 2.50 miles of streets have been graded during the year, namely:

Admiral street, from Hillwood to Douglas avenue.

Allens avenue, from tracks of New York. New Haven & Hartistic Railroad Company to the new culvert.

Charles street. from Hagan to city line.

Cleveland street, from Laurel Hill avenue to easterly termination.

Eastwood avenue, from Laurel Hill to Merino street.

Everett avenue, from Elmgrove to Arlington.

Grand street, from Potter avenue to Huntington.

Hamilton street, from Adelaide avenue to Lenox.

Hope street, from Rochambeau avenue to city line.

Linton street, from Canton to Academy avenue.

Reservoir avenue, from Crescent street to Algonquin.

Reynolds avenue, from Prairie to Burnside street.

Spencer street, from Almy to Harkness. Summit avenue, from Fourth street to Seventh.

During the quarter the following work was completed:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

June 16, 1904, Barre street, from Ridge to Bell.

" " Bell street, from Barre to Eden.

Sept. 21, 1905, Spencer street, from Almy to Harkness.

REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

Sept. 21, 1905, Admiral street, from Douglas avenue to Hillwood street.

The following work was in progress December 31, 1905:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

Oct. 19, 1905, Summit avenue from Fourth street to Seventh.

# REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

Date of order.

May 18, 1905, Hope street, from Rochambeau avenue to the city line.

The following work, ordered by the board of aldermen and city council, had not commenced December 31, 1905, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

May 18, 1905, Narragansett avenue, from the city line northerly to a point about 120 feet north of Ardoene street.

Sept. 21, 1905, Unit street, from Chalkstone avenue to Maynard street.

#### PAVE WITH GRANITE BLOCKS.

May 5, 1905, Sabin street, from West Exchange to Aborn

REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

December 21, 1905, Arthur avenue and Dean street, from West Exchange to new bridge over tracks of the New York, New Haven and Hartford Railroad Co.

**\*97,586 97** 

Classified as follows:		
Crushed stone—material and labor	\$20,219 83	
Repairs on unpaved streets	18,296 32	
Cleaning streets	17,840 44	
Stone—paving and crosswalk	13,542 01	
Repairs on paved streets	4,816 32	
Tools, implements, etc	3,574 32	
Blacksmith and wheelwright shop	2,697 13	
Barn expenses	2,492 44	
Labor on material	1,249 20	
	963 51	
Steam rollers—repairs and supplies	741 55	
Horses, wagons, harnesses, etc		
Removing snow and ice	592 26	
Watering streets	566 90	
Repairs on stone crushers	446 85	
Superintendent's salary	442 00	
Building driveways, etc	363 14	
Sundries	215 23	
Watchman at city yard	156 00	
Office expenses, city yard	94 84	
Car fares	50 00	
Fencing streets—material and labor	28 00	
Repairs on buildings, highway yard	6 13	
Telephone lines	5 60	<b>389,410</b>
New Work — Building and Streets, Etc.	Rebuild	ING
SIDKWALKS CURBED AND GUTTERS	Paved.	
Everett avenue, from Arlington to Elmgrove	\$100 00	
Spencer street, from Almy to Harkness	791 78	
Summit avenue, from Fourth to Seventh	3,094-78	
		- 3,99
REMOVE OBSTRUCTIONS, GRADE AND PUT IN	GOOD CO	IDITION.
Admiral street, from Douglas avenue to Hillwood		
street		\$4,19
		<b>8</b> 97,58
Bills deposited with the city treasu	rer	
for collection from October 1 to Decem	ber	
31, 1905, inclusive, amounted to	•	\$7,218

As follows:		
Labor and material	\$4,579	15
Building driveways, etc	776	50
Blacksmith and harness work for other depart-		
ments	604	18
Sale of old iron and brass	529	50
Street sweepings	294	75
Boarding horses for other departments	197	98
One horse sold to the water department	160	00
Manure from barn	70	00
Empty oil barrels	6	00
<del>-</del>		_
	\$7,218	06

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$**5,516 83

#### As follows:

Labor and material	\$3,375 46
Blacksmith and harness work for other depart-	
ments	661 08
Sale of old iron and brass	529 50
Street sweepings	320 00
Boarding horses for other departments	197 98
Building driveways, etc	196 81
One horse sold to the water department	160 00
Manure from barn	70 00
Empty oil barrels	6 00
,	<b>\$</b> 5,516 83

## SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from October 1 to December 31, 1905, inclusive, amounted to .

**\$7,259** 59

Granite curbing	\$4,427	75
Concreting sidewalks	1,577	28
Repairing sidewalks and gutters	1,254	<b>5</b> 6
-	<b>\$</b> 7 259	50

Bills deposited with the cit	y treasurer	for	
collection from October 1 to	December	81,	
1905, inclusive, amounted to	• •	•	<b>\$1,295</b> 4

#### As follows:

Curbing bills	\$626 61 502 37
Concreting sidewalks	86 44
Repairing sidewalks and gutters	19 98 

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

#### As follows:

Granite curbing	<b>\$67</b> 0 96
Curbing bills	626 61
Concreting sidewalks	92 91
Repairing sidewalks and gutters	77 35
	\$1.467.83

**\$1,467** 83

#### CITY ENGINEER.

Bills approved on account of the city engineer's department from October 1 to December 31, 1905, inclusive, amounted to \$11,588

Salary — city engineer	\$1,125	00
Salaries of assistants	9,380	92
Salaries of clerks	789	75
Supplies - drawing material, etc	255	62
Telephone lines	25	70
Meteorological instruments and repairs	6	00
Sundries	2	75
Car fares	2	65
•	\$11,588	39

Bills deposited with the city treasurer for collection (for one typewriter ribbon) from Detober 1 to December 31, 1905 inclusive amounted to	n :, : : :	\$ .58 \$ .58	
BRIDGES.			
Bills approved on account of bridges from	n		
October 1 to December 31, 1905, inclusive	э.		
amounted to	-,	<b>\$4,443</b> 80	
amounted w	•	ф <del>т,110</del> 00	
Charged as follows:			
Barn expenses	\$101	17	
Crawford street bridge	-	60	
Gaspee street bridge		30	
Geneva bridge		85	
Horses, wagons, harnesses, etc	36	08	
Lumber, hardware, etc	9	60	
Manton avenue bridge	29	80	
Merino bridge	257	37	
Point street bridge	537	32	
Randall street bridge		02	
Red bridge	103		
Rent of keeper's house—Washington bridge		00	
Salaries — Point street bridge	1,004		
Salaries — Red bridge	531 563		
Smith street bridge		03	
Smithfield avenue bridge	351		
Sundries	187		
Telephone lines		68	
Tools	61	66	
Valley street bridge — north span	10	02	
Valley street bridge — south span	2	78	
Veazie street	2	78	
Washington bridge	533		
Washington row bridge		77	
West River street		63	
Weybosset bridge	2	60	
	\$4,443	80	

Bills deposited with the city treasurer for collection from October 1 to December 31, 1905, inclusive, amounted to	
As follows:	
Sale of old lumber	\$200 00
During the quarter coupons from bills collected have been returned by the city treasurer and receipted for to the amount of	,
As follows:	
Miscellaneous work	\$278 00 200 00
	\$478 00
clusive, have been paid from the special appropriation for that work to the amount of PUBLIC LIGHTS.	
Rills approved an account of the culti-	
Bills approved on account of the public lights from October 1 to December 31, 1905, inclusive, amounted to	
Charged as follows:	

Bills deposited with the city treasurer		
for collection (for one gas post, lantern and		
frame), from October 1 to December 31, 1905,		
inclusive, amounted to	<b>\$</b> 7	00
During the quarter, coupons from bills		
collected (for one gas post, lantern and		
frame), have been returned by the city		
treasurer and receipted for to the amount of	<b>%</b> 7	00

## PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from October 1 to December 31, 1905, inclusive, amounted to . . . **\$**5,551 65

Salaries of commissioner and secretary	\$1,850	00
Salaries of office assistants	3,397	19
Office supplies	284	51
Office supplies		95
	<b>95</b> 551	65

# ABOLISHING GRADE: CROSSING AT GROVE STREET, Etc.

Bills approved for account of building retaining walls, etc., on Barre street, from October 1 to December 31, 1905, inclusive, have been paid from the special appropriation for that work, to the amount of

87.423 6

WALTER F. SLADE,

Commissioner.

91

CHARY HUGENENT.

No. 14

SINETYTHIBU

QUARTERLY REPORT

HE THE

# spartment of Public Works

OR BRU

CITY OF PROVIDENCE, R. I.

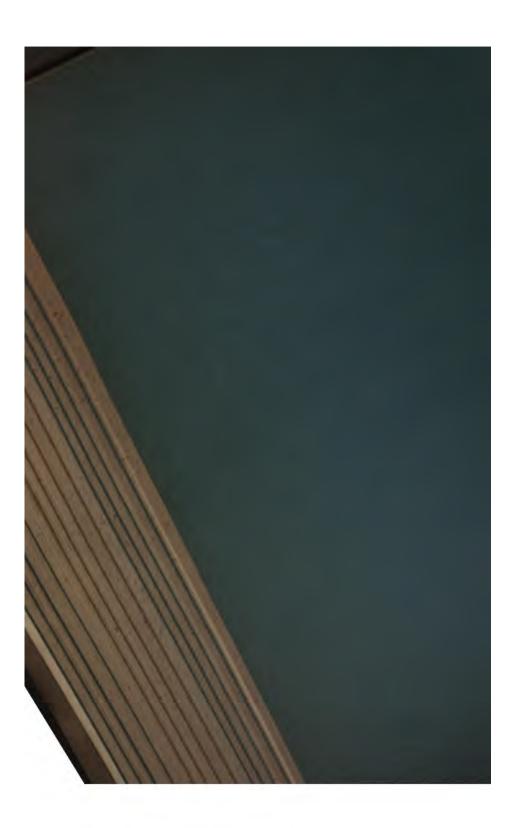
QUARTER ENDING MARCH M. 1900.



PARTON CITY PRINTER

No. of Street, Square, Square,

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# NINETY-THIRD

# QUARTERLY REPO

# Department of Public

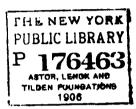
OF THE

CITY OF PROVIDENCE,

QUARTER ENDING MARCH



Che Providence Press: SNOW & FARNHAM, CITY PRINTER 63 Washington Street.



# REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., April 1, 1906.

# TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the ninety-third quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending March 31, 1906.

#### WATER WORKS.

January 24th, contracts for the laying of the 42-inch leading main from Sockanosset reservoir to the city were awarded to the following parties and subsequently executed, namely:

Frank A. Gammino — Section one	\$15,749 50
Bruno, Salomone and Petitti - Section two	16,276 10
Frederick E. Shaw - Section three	12,224 25
Charles Crankshaw — Section four	1,495 15

February 13th, the proposal of Coffin Valve Company to furnish and deliver at the city yard 25 flush hydrants of the Providence pattern, with extra heavy gates, steel boxes and covers, for the sum of \$124.55 each complete, was accepted.

March 24th, the proposal of the Eastern Coal Company to furnish and deliver at Hope pumping station 400 tons of No. 2 North American red ash coal at \$3.05 per net ton, was accepted.

The average daily consumption of water during the last quarter was \$14,943,582 gallons.

Water pipes were laid during the quarter as follows:

16-inch.

In River avenue	515.00 feet.
8-inch.	
In Taber avenue	321.69 feet.
6-інсн.	
In Alexander, Baxter, Dunford, Metcalf, Mercy, Pratt, Ralph, Sevier, Shafter and Unit streets; Grotto, Irving, Massie and Union avenues; in Carleton, Cottage, Grace and Marcy streets in the town of Cranston	3,804.63 feet.
Total	4,641.32 feet.
or .879 + miles.	
Statement of sizes and lengths of pipe laid si	ince the com-
mencement of the work:	
42-inch	4,979.49 feet
36-inch	10,207.57 feet
30-inch	61,328.30 feet.
24-inch	43,293.86 feet
20-inch	9,626.59 feet.
16-inch	34,327,95 feet.
12-inch	110,835.37 feet.
10-inch	15,057.14 feet.
8-inch	295,961.62 feet.
6-inch	1,269,558.97 feet.
Total	1,855,176.86 feet
or, 351,359 = miles.	

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch	23,004.37 feet
	29,517.59 feet
or, 5.59 ± miles.	

Four fire hydrants have been set during the quarter, one in each of the following locations:

Everett avenue, north side, 304 feet west of Taber avenue. Massie avenue, south side, 75.5 feet west of Baxter street.

River avenue, North Providence, west side, 29 feet north of gate at Jesse street.

Unit street, east side, 22.5 feet north of Cloud street.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and sixty-five — nineteen hundred and fifty-two flush, and one hundred and thirteen post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter two hundred and thirty-eight water meters were set, of which number sixty-five were to replace other meters. The use of twelve meters was discontinued.

The following meters were in use at the close of the quarter:

					SIZE.					į.
KIND.	e-in.	₹-in.	1-in.	1 <b>}-i</b> n.	2-in.	3-in.	4-in.	6-in.	8-in.	Total.
Ball & Fitts	1,816	377	90	10	4					2,297
Ball & Fitts, rotary			4	6		2	1			IJ
Crown	9,743	1,211	360	154	47	31	26	1	ļ	11.573
Empire	1,386	175	74	50	15	1	1	i 		1,702
Fales, Jenks & Sons	;		1						: 	1
Gem	ļ				15	30	19	3		- 6
Hersey	24							. <b></b>	• ••••••	24
Nash	1 208		<b></b>		ł				ı <b></b>	206
Thomson	4,740	423	74	54	22	ļ <del>.</del>	7	2	i	5,329
Trident	103		1	!	[ [ • • • • • •	[		·		104
Venturi		ļ 		ļ		ļ	 	: 	. 1	1
	<u>'</u>	<u>'</u>			!		¦		.—	
	18,020	2,186	604	274	103	71	54	6	· 1	21,319

One hundred and twenty-one plumbers licenses were issued during the quarter, all of which expire December 31, 1906.

Five hundred and thirty-four permits to do plumbing work were issued during the quarter.

Ninety applications for water were made during the quarter, making the total number twenty-seven thousand four hundred and fifty-seven.

The number of new service stops opened during the quarter was ninety-two.

The total number of service stops opened to March 31, 1906, inclusive, was twenty-six thousand seven hundred and seventy-two. The number in actual use March 31, 1906, was twenty-four thousand five hundred and forty-eight.

The receipts for water each year since the commencement have been as follows:

Year.	Amount.	Year.	Amount.
372	\$41,003 51	1869	\$377,497 97
873	97,386 09	1890	401,140 86
874	132,062 39	1891	404,553 84
875	165,144 71	1892	409,421 21
876	183,868 73	1893	427,546 51
877	200,039 39	1894	432,383 97
878	218,883 33	1895	471,069 97
879	229,551 78	1896	485,187 33
880	247,705 06	1897	490,652 47
881	260,530 87	1898	502,603 10
882	269,318 77	1899	522,124 46
983	283,632 89	1900	554,949 62
884	302,368 36	1901	578,869 O7
385	313,561 21	1902	605,307 35
386	323,084 67	1903	621,016 74
387	339,513 60	1904	670,700 90
\$ <b>88</b>	346,731 58	1905	673,252 97

The amount of bills approved on account of water works from January 1, to March 31, 1906, inclusive, was:

#### Classified as follows:

#### PETTACONSET PUMPING STATION.

Allis-Chalmers high-duty engine, to furnish and	
erect	\$19,000 00
Coal and wood	4.836 46
Cleaning beds at filtration plant	2,944 29
Leading main from Sockanosset to city - to lay	2,865 67
Real estate	2,186 92
Labor, pumping at the filter beds	1,798 80
Amount carried forward	\$33.639.14

Amount brought forward	\$33,632 14	į.
Installation of sand filtration plant at Pettaconset.	1,625 #1	
Cornish engine house	1,341 32	}
Sundries	1,231 58	}
Firemen	1,032 50	)
Sand filtration plant for miscellaneous supplies	866 38	1
Engineers	646 50	)
Laboratory at the filtration plant-labor and sup-		
plies	572 61	
Corliss pumping engine and house	537 67	
Superintendence	442 00	
Laying 42-inch force main from Pettaconset to		
Sockanosset	427 37	
Oil, waste and packing	226 54	
Repairs on boilers	179 38	
Lights	146 14	
Care of grounds	84 00	
Barn expenses	82 37	
Labor on fuel	67 60	
Worthington high-duty engine	63 72	
Horses, wagons, harnesses, etc	2 76	\$43,206 <b>39</b>
Sundries	\$317 18 182 00	
Hope Pumping Station.		1.0 20
	<b>#</b> ************************************	
Firemen	\$389-80 306-71	
Engineers	169 00	
Lights	56 43	
Sundries	37 83	
Repairs on boilers	17 46	
The parts of the factor of the		977 Z
Hope Reservoir.		
Watchman	\$204.75	
Sundries	11 90	
-		216 65
FRUIT HILL RESERVOIR.		
Sundries	\$348 81	
Watchman	182 00	1
		530 81
Amount carried forward		\$45,432 26

METER DEPARTMENT.		
W7		
Water meters	<b>\$</b> 3,099 63	
Setting and repairing meters	1,315 38	
-		4,415 01
PIPE LINE AND SERVICE STO	P8.	
Repairs	<b>\$3,832</b> 65	
Inspection of pipe line and services	1,265 28	
Superintendence — salaries	874 25	
•		5,972 18
PIPE YARD.		
Cast iron water pipe	<b>\$65,348</b> 51	
Stop valves	6,221 45	
Laying water pipe	3,672 86	
Special castings	2,206 44	
Laying service pipe	1,309 19	
Taps and stops	1,264 85	
Fire hydrants, boxes and covers	1,194 40	
Service pipe	1,063 46 962 75	
Pig lead and tin	902 18 624 78	
Tools	284 94	
Pipe yard, office expenses	49 83	
Patterns for special castings	14 90	
. which is the opening of the control of the contro		84,237 46
MISCELLANEOUS.		
Clerks' and inspectors' salaries	\$1,741 40	
Telephone lines	904 92	
Barn expenses	633 80	
Horses, wagons, harnesses, etc	629 78	
Prevention of defilement of the Pawtuxet	549 99	
Car fares	310 00	
Real estate at Pawtuxet	67 50	
Sundries	48 43	
Public drinking fountains and troughs	30 00	4,915 82
	•	\$144,972 73
The Askal same Manual As March	01	,-·- · ·
The total expenditures to March 1906, inclusive, was		24,306 00

The	value	of	the	water	works	sy	stem
January	y 1, 19	06,	as	estimate	d by	the	city
enginee	r, was	as f	ollo	ws:			

Pettaconset pumping station	\$340,694	00	
Hope pumping station	120,778	78	
Sockanosset, Hope and Fruit Hill reservoirs	691,498	68	
Main lines and distribution pipes	2,768,494	94	
Real estate in Pawtuxet and Lincoln	15,975	00	
Tools and supplies	39,161	63	
<del></del>			83,976,603 03

Bills deposited with the city treasurer for collection from January 1 to March 31, 1906, inclusive, amounted to . . . \$451,648 20

### As follows:

Water	\$444,764	20	
Water meters	3,662	75	
Setting and repairing meters	1,525	52	
Labor and material, laying services, etc	1,299	56	
Rent of real estate	171	75	
Penalties	154	00	
Repairs on pipe line	45	42	
Permanently closing service stops	25	00	
•		-	8451,648 20

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$446,374-48

### As follows:

***************************************	CHINGS		
Water meters	3,676	75	
Setting and repairing meters	2,217	90	
Labor and material, laying services, etc	1,178	20	
Rent of real estate	203	50	
Penalties	154	00	
Repairs on pipe line	53	55	
Permanently closing service stops	20	00	
-		_	\$446,374.48

### SEWERS.

One hundred and thrity-two drain layers' licenses were issued during the quarter all of which expire December 31,

During the quarter, one hundred and sixty-five permits were issued to drain layers - sixty-six for new work and ninety-nine for extensions and repairs of drains.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

Reynolds avenue, Wadsworth and Grand streets	\$4,243	43
Narragansett avenue and right of way	5,802	02
Northup avenue, from Silver Spring street to westerly line of	•	
Edwards	1,014	53
Andem street, from Canton to Bergen	1,823	72
Elmdale avenue, Whitehall and Cleveland streets and East-		
wood avenue	7,517	50
Rochambeau avenue, from Hope street about 425 feet westerly.	1,746	86
Reservoir and Adelaide avenue	1,706	<del>1</del> 8
Reservoir avenue from Adelaide avenue southerly to Gwinnett		
court	278	96
Douglas avenue, from Farmer street to Vandewater	2,536	41
Blackstone boulevard, west side, from north line of Glen avenue		
northerly	160	00
Admiral street, from Hillwood to end of present sewer in		
Admiral street	2,010	28
Linton and Robin streets	2,488	17
Unit street, from Chalkstone avenue to Maynard street	6,132	10
Grotto avenue, from Penrose to Irving	3,232	74
	\$40,693	20

January 2nd, the proposal of the Long Island and Fisher Island Brick Company to furnish and deliver at the city yard one cargo of Fisher Island Bricks at \$9.50 per thousand, was accepted.

March 13th, the proposal of the American and British Manufacturing Company to repair one of the Holly pumping engines at Ernest street station for the sum of **₹725.00**, was accepted.

March 14th, the proposal of The F. W. Wait Lime Company to furnish and deliver in bulk at Harbor Junction the lime required by the sewerage precipitation tanks from March 19, 1906, to May 1, 1907, at \$7.00 per ton of 2,000 pounds, was accepted.

March 23rd, the proposal of William L. Barrell Company to furnish and deliver 5,000 yards of 40-inch 9-ounce duck for filter cloths at 16½ cents per yard, was accepted.

March 12th, contracts for the construction of sewers were awarded to the following parties and subsequently executed, viz.:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials.]

#### TO FREDERICK E. SHAW.

No. of re	esolution.	Date o	f approval.
410.	Dec.	8, 19	05, Massie avenue, from Broad street to Baxter, in Baxter street, from Massie avenue to its southerly termination and
			in right of way from  Baxter street to Oxford . \$733 00
412.	••	••	Taber avenue, from Lloyd to President
414.	••	"	Handy street, from Amherst to Amsterdam . 160 43
415.	••		Eudora street, from  Eddy to Poe and in Poe  street from Rhodes to
417.			Public
			sewer) 2,092 40

### To Charles Crankshaw.

No. of resolution. Date of approval.

409. Dec. 8, 1905, Dora street, from about 100 feet east of Webster avenue to Priscilla, and from about 100 feet east of Priscilla avenue to Whitehall street; also in Wallace street, from Priscilla avenue to White-**\$1,142 40** hall street

411. 66 66 Waverly street, from Cranston to Union avenue 785 60

TO GEORGE W. UPPER.

413. Dixon street, from Stamford avenue to Elmwood 399 30

During the quarter, the construction of the following sewer was completed, namely:

No. of resolution. Date of approval. Date of completion. 180. May 5, 1905, Unit street, from Chalkstone avenue to Maynard

> . Feb. 26, 1906. street .

Work upon the following sewer was in progress at the close of the quarter, namely:

No. of resolution. Date of approval.

68. Feb. 7, 1905, Pleasant Valley Division, Section 31.

Work upon the following sewers, completing the work ordered by the city council, had not commenced March 31, 1906, namely:

- No. of resolution. Date of approval.
- - 288. Sept. 12, 1905, West River street, from Cross to
    - and from West River street at El erly through right of way about
    - feet to end of section 22 of the im sewerage system.
  - 409. Dec. 8, Dora street, from a point about 1 east of Webster avenue to Prisci
    - and from a point about 1
    - east of Priscilla avenue to W
      - street; and also in Wallace stre-Priscilla avenue to Whitehall &

avenue to its southerly terminati

- 410. Massie avenue, from Broad Baxter, in Baxter street from
- in right of way from Baxter Oxford.
- 411. " - Waverly street, from Cranston avenue.
- 412. Taber avenue, from Lloyd to 1 413. Dixon street, from Sanford a
- Elmwood. 414. Handy street, from Amherst to dam.
- 415. Eudora street, from near Edd and in Poe street from near . Public.
- 417. Thayer street, from Barnes . (storm sewer).

The state of the s	PUBLIC	WORKS.	
CALANALINE WORKS		A	
accor	unt of	sewers f	r
A.I. Sulle Mile	was:		
A.S.H. WAS	•		
· 13		<b>*31,152</b>	2
		,	
TALLEY IS			
<b>3</b>			
	\$3,311		
	495 300		
***************************************	294		
***************************************	214		
		67	
., from Amherst to Amster-			
	21	19	
sett avenue, and in right of way			
e to main trunk sewer	27	75	
street, from Chalkstone avenue to	2.443	K1	
Pleasant Valley Division, Section 31	24,034		
		 \$31,15	ĸο
		\$\(\dagger1,1\)	ندر,
• 4		406 746	
or maintenance,	•	<b>*26,746</b>	
Classified as follows:	•	\$20,140	
Classified as follows:	\$6,081	. ,	
,	\$6,081 2,036	86	
Classified as follows:		86 36	
Classified as follows:  Cleaning basins and sewers	2,036 640 515	86 36 08 28	
Classified as follows:  Cleaning basins and sewers	2,036 640 515 475	86 36 08 28 46	
Classified as follows:  Cleaning basins and sewers	2,036 640 515 475 442	86 36 08 28 46 00	
Classified as follows:  Cleaning basins and sewers  Repairing basins and sewers  Inspection of connections  Cleaning and repairing old drains  Horses, wagons, harnesses, etc  Salary, superintendent  Barn expenses	2,036 640 515 475 442 371	86 36 08 28 46 00 96	
Classified as follows:  Cleaning basins and sewers.  Repairing basins and sewers.  Inspection of connections.  Cleaning and repairing old drains.  Horses, wagons, harnesses, etc.  Salary, superintendent.  Barn expenses.  Tools.	2,036 640 515 475 442 371 220	86 36 08 28 46 00 96	
Classified as follows:  Cleaning basins and sewers  Repairing basins and sewers  Inspection of connections  Cleaning and repairing old drains  Horses, wagons, harnesses, etc  Salary, superintendent  Barn expenses	2,036 640 515 475 442 371 220	86 36 08 28 46 00 96	
Classified as follows:  Cleaning basins and sewers.  Repairing basins and sewers.  Inspection of connections.  Cleaning and repairing old drains.  Horses, wagons, harnesses, etc.  Salary, superintendent.  Barn expenses.  Tools.  Repairs on buildings, sewer maintenance yard.	2,036 640 515 475 442 371 220 197	86 36 08 28 46 00 96 10	
Classified as follows:  Cleaning basins and sewers.  Repairing basins and sewers.  Inspection of connections.  Cleaning and repairing old drains.  Horses, wagons, harnesses, etc.  Salary, superintendent.  Barn expenses.  Tools.  Repairs on buildings, sewer maintenance yard.  Sundries.	2,036 640 515 475 442 371 220 197 93	86 36 08 28 46 00 96 10 03 62	
Classified as follows:  Cleaning basins and sewers.  Repairing basins and sewers.  Inspection of connections.  Cleaning and repairing old drains.  Horses, wagons, harnesses, etc.  Salary, superintendent.  Barn expenses.  Tools.  Repairs on buildings, sewer maintenance yard.  Sundries.  Telephone lines.	2,036 640 515 475 442 371 220 197 93 35	86 36 08 28 46 00 96 10 03 62	
Classified as follows:  Cleaning basins and sewers.  Repairing basins and sewers.  Inspection of connections.  Cleaning and repairing old drains.  Horses, wagons, harnesses, etc.  Salary, superintendent.  Barn expenses.  Tools.  Repairs on buildings, sewer maintenance yard.  Sundries.  Telephone lines.  Cleaning private connections.	2,036 640 515 475 442 371 220 197 93 35 34	86 36 08 28 46 00 96 10 03 62 93 40	
Classified as follows:  Cleaning basins and sewers.  Repairing basins and sewers.  Inspection of connections.  Cleaning and repairing old drains.  Horses, wagons, harnesses, etc.  Salary, superintendent.  Barn expenses.  Tools.  Repairs on buildings, sewer maintenance yard.  Sundries.  Telephone lines.  Cleaning private connections.  Office expenses.	2,036 640 515 475 442 371 220 197 93 35 34 32	86 36 08 28 46 00 96 10 03 62 93 40	
Classified as follows:  Cleaning basins and sewers.  Repairing basins and sewers.  Inspection of connections.  Cleaning and repairing old drains.  Horses, wagons, harnesses, etc.  Salary, superintendent.  Barn expenses.  Tools.  Repairs on buildings, sewer maintenance yard.  Sundries.  Telephone lines.  Cleaning private connections.  Office expenses.  Filling cisterns, etc.	2,036 640 515 475 442 371 220 197 93 35 34 32	86 36 08 28 46 00 96 10 03 62 93 40 90	
Classified as follows:  Cleaning basins and sewers.  Repairing basins and sewers.  Inspection of connections.  Cleaning and repairing old drains.  Horses, wagons, harnesses, etc.  Salary, superintendent.  Barn expenses.  Tools.  Repairs on buildings, sewer maintenance yard.  Sundries.  Telephone lines.  Cleaning private connections.  Office expenses.  Filling cisterns, etc.	2,036 640 515 475 442 371 2200 197 93 35 34 32	86 36 08 28 46 00 96 10 03 62 93 40 90 00	
Classified as follows:  Cleaning basins and sewers	2,036 640 515 475 442 371 220 197 93 35 34 32 10	86 36 08 28 46 00 96 10 03 62 93 40 90 00 79 36 24	
Classified as follows:  Cleaning basins and sewers	2,036 640 515 475 442 371 220 197 93 35 34 32 10	86 36 08 28 46 00 96 10 03 62 93 40 90 00 79 36 24 63	

No. of 1	resolution	. Dat	e of a	pproval.
288.	Sept.	12, 1	905,	West River street, from Cross to Burks, and from West River street at Elk easterly through right of way about 530 feet to end of section 22 of the improved
409.	Dec.	8,	66	sewerage system.  Dora street, from a point about 100 fest east of Webster avenue to Priscilla avenue, and from a point about 100 fest east of Priscilla avenue to Whitehall street; and also in Wallace street, from Priscilla avenue to Whitehall street.
410.	"	66	44	Massie avenue, from Broad street to Baxter, in Baxter street from Massie avenue to its southerly termination; and in right of way from Baxter street to Oxford.
411.	"	"	"	Waverly street, from Cranston to Union avenue.
412.	"	44	66	Taber avenue, from Lloyd to President.
413.	• •		**	Dixon street, from Sanford avenue to Elmwood.
414.	46	••	**	Handy street, from Amherst to Amsterdam.
415.	**	**	"	Eudora street, from near Eddy to Poe, and in Poe street from near Rhodes to Public.
417.	• •	**	"	Thayer street, from Barnes to Angell (storm sewer).

The amount of bills approved on accoudance 1 to March 31, 1906, inclusive,		sewers from
	was.	***
For construction,	•	<b>\$31,152</b> 9
Charged as follows:		
Material	\$3,311	74
Contract reservations	495	00
Testing cement	300	
Sundries	294	
Additional catch-basins	214	
Tools		67
Sewer in Handy street, from Amherst to Amster-		••
dam	21	19
Sewer in Narragansett avenue, and in right of way	07	75
from city line to main trunk sewer	21	10
Maynard street	2,443	K1
Sewer in Pleasant Valley Division, Section 31	24,034	
Cows in Floration valvey 1217 John J. Socioli of the		\$31,152 S
For maintenance,	•	<b>\$26,746</b> 3
Classified as follows:		
Cleaning basins and sewers	\$6,081	86
Repairing basins and sewers	2,036	
Inspection of connections	640	08
Cleaning and repairing old drains	515	28
Horses, wagons, harnesses, etc	475	46
Salary, superintendent	442	00
Barn expenses	371	
Tools	220	
Repairs on buildings, sewer maintenance yard		03
Sundries		62
Telephone lines		93 40
Office expenses		90
Filling cisterns, etc		00
ERNEST STREET STATION.		
Coal and wood	1,533	79
Engineers	•	36
Cleaning screens	694	
Cleaning and repairing pumps	477	63
Firemen	435	69
		<del></del>

No. of	resolution	. Date	of a	pproval.
288.	Sept.	12, 1	905,	West River street, from Cross to Burke, and from West River street at Elk easterly through right of way about 530 feet to end of section 22 of the improved
409.	Dec.	8,	"	sewerage system.  Dora street, from a point about 100 fest east of Webster avenue to Priscilla avenue, and from a point about 100 fest east of Priscilla avenue to Whitehall street; and also in Wallace street, from Priscilla avenue to Whitehall street.
410.	"	**	"	Massie avenue, from Broad street to Baxter, in Baxter street from Massie avenue to its southerly termination; and in right of way from Baxter street to Oxford.
411.	"	"	"	Waverly street, from Cranston to Union avenue.
412.	44	"	"	Taber avenue, from Lloyd to President.
413.	• •	"	"	Dixon street, from Sanford avenue to Elmwood.
414.	"	••	"	Handy street, from Amherst to Amsterdam.
415.		**	**	Eudora street, from near Eddy to Poe, and in Poe street from near Rhodes to Public.
417.	**	**	"	Thayer street, from Barnes to Angell (storm sewer).

The amount of bills approved on accoudance 1 to March 31, 1906, inclusive,		sewers from
For construction,	•	<b>\$</b> 31,152 99
Charged as follows:		
Material	\$3,311	74
Contract reservations	495	
Testing cement	300	36
Sundries	294	64
Additional catch-basins	214	98
Tools		67
Sewer in Handy street, from Amherst to Amster-		
dam	21	19
Sewer in Narragansett avenue, and in right of way		
from city line to main trunk sewer	27	75
Sewer in Unit street, from Chalkstone avenue to		
Maynard street	2,443	
Sewer in Pleasant Valley Division, Section 31	24,034	08
		<b>\$</b> 31,152 9
For maintenance,	•	<b>\$26,746</b> 3
Classified as follows:		
Cleaning basins and sewers	\$6,081	86
Repairing basins and sewers	2,036	
Inspection of connections	640	
Cleaning and repairing old drains	515	28
Horses, wagons, harnesses, etc	475	46
Salary, superintendent	442	00
Barn expenses	371	96
Tools	220	10
Repairs on buildings, sewer maintenance yard	197	03
Sundries		62
Telephone lines		93
Cleaning private connections		40
Office expenses		90
Filling cisterns, etc	10	00
ERNEST STREET STATION.		
Coal and wood	1,533	79
Engineers		36
Cleaning screens	694	
Cleaning and repairing pumps	477	63
Firemen	435	69
Amount carried forward	\$15,161	

Amount brought forward	\$15,161	<b>69</b>		
Repairs on engines	183	21		
Care of grounds	79	19		
Supplies	78			
Lights	33			
Care of buildings	26	-		
Repairs on boilers		84		
SEWAGE PRECIPITATION TAN	KS.			
Chemicals	4,912	20	•	
Labor in sludge disposal	2,616			
Labor on sewage precipitation	1,400			
Miscellaneous supplies	1,256 488			
Electrical power	255			
Fuel	179			
Repairs on buildings	83	-		
Lights	31	<b>0</b> 5		
Repairs on tanks		36		
•	\$26,746	31		
•	-			
The ust expenditure for construction of sewer	, to Mar	ch		
The net expenditure for maintenance of sewer	to Mar	\$7 ch		
31, 1906, inclusive, was	s to Mar	\$7 ch		
The net expenditure for maintenance of sewer 31, 1906, inclusive, was	s to Mar	\$7 ch \$1	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was	s to Mar	\$7 ch \$1		5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was	to Mar rer 31,	\$7 ch \$1	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was	rer	\$7 ch \$1	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was	s to Mar rer 31,	*1	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was	s to Mar rer 31,	*1 00 60	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was	s to Mar rer 31,	*1 00 60 43	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was	s to Mar rer 31,	*1 00 60 43 25	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was  Bills deposited with the city treasu for collection from January 1 to March 1906, inclusive, amounted to  As follows:  Fidelity and Deposit Company, for completing sewer in Narragansett avenue, and in right of way  Miscellaneous work  Sale of old rubber  Cleaning private connections  Empty cement bags	s to Mar rer 31,	*1 00 60 43 25 70	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was  Bills deposited with the city treasu for collection from January 1 to March 1906, inclusive, amounted to  As follows:  Fidelity and Deposit Company, for completing sewer in Narragansett avenue, and in right of way  Miscellaneous work  Sale of old rubber  Cleaning private connections  Empty cement bags  Pumping out cellar  Sewer material	s to Mar rer 31, \$600 107 52 41 18	*1 00 60 43 25 70 00	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was  Bills deposited with the city treasu for collection from January 1 to March 1906, inclusive, amounted to  As follows:  Fidelity and Deposit Company, for completing sewer in Narragansett avenue, and in right of way  Miscellaneous work  Sale of old rubber  Cleaning private connections  Empty cement bags  Pumping out cellar  Sewer material	\$600 107 52 41 18 10 370	*1 00 60 43 25 70 00	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was  Bills deposited with the city treasu for collection from January 1 to March 1906, inclusive, amounted to  As follows:  Fidelity and Deposit Company, for completing sewer in Narragansett avenue, and in right of way  Miscellaneous work  Sale of old rubber  Cleaning private connections  Empty cement bags  Pumping out cellar  Sewer material	\$600 107 52 41 18 10 370	*1 00 60 60 43 25 70 00 66 50	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was.  Bills deposited with the city treasu for collection from January 1 to March 1906, inclusive, amounted to  As follows:  Fidelity and Deposit Company, for completing sewer in Narragansett avenue, and in right of way.  Miscellaneous work  Sisce of old rubber  Cleaning private connections.  Empty cement bags.  Pumping out cellar.  Sewer material.  Testing cement.	\$600 107 52 41 18 10 370 10	*1 00 60 60 43 25 70 00 66 50	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was  Bills deposited with the city treasu for collection from January 1 to March 1906, inclusive, amounted to  As follows:  Fidelity and Deposit Company, for completing sewer in Narragansett avenue, and in right of way  Miscellaneous work  Sale of old rubber  Cleaning private connections  Empty cement bags  Pumping out cellar  Sewer material  Testing cement  During the quarter, coupons from b	\$600 107 52 41 18 10 370 19	*1 00 60 60 43 25 70 00 66 50	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was.  Bills deposited with the city treasu for collection from January 1 to March 1906, inclusive, amounted to  As follows:  Fidelity and Deposit Company, for completing sewer in Narragansett avenue, and in right of way.  Miscellaneous work.  Sale of old rubber  Cleaning private connections  Empty cement bags.  Pumping out cellar.  Sewer material.  Testing cement.  During the quarter, coupons from be collected have been returned by the cement.	\$600 107 52 41 18 10 370 19 \$1,210	*1 00 60 60 43 25 70 00 66 50	,296,23	5 <b>39</b>
The net expenditure for maintenance of sewer 31, 1906, inclusive, was.  Bills deposited with the city treasu for collection from January 1 to March 1906, inclusive, amounted to  As follows: Fidelity and Deposit Company, for completing sewer in Narragansett avenue, and in right of way.  Miscellaneous work Sale of old rubber Cleaning private connections. Empty cement bags. Pumping out cellar.  Sewer material.  Testing cement.	\$600 107 52 41 18 10 370 19 \$1,210	\$7 eh \$1  00 60 60 43 25 70 00 650 51	,296,23	5 30 54

As follows:		,
Fidelity and Deposit Company, for completing sewer in Narragansett avenue and in right of		
way	\$600	00
Miscellaneous work	231	13
Sale of old rubber	52	4:
Cleaning private connections	4:3	25
Empty cement bags	18	70
Pumping out cellars	10	00
Sewer material	399	23
Testing cement	9	60
<del>-</del>	\$1,364	34

### HIGHWAYS.

January 18th, the proposal of Crabtree and Havey to furnish and deliver 15,000 linear feet of granite curbing for the sum of 52 cents per foot, was accepted.

January 19th, the proposal of the Sweeney Granite Works to furnish and deliver at city yard 15,000 granite blocks at \$1.50 per square yard, was accepted.

January 22d, the following proposals were received and accepted for furnishing and delivering material at the city yard, namely:

Nelson A. Bennett, 50 pieces curbing, of 10-foot radius	(a) \$3	25 each
40 bound stones	(a) 1	25 each
Albert Lippitt, 25 pieces curbing, of 8-foot radius	(a) 2	71 each
Smithfield Granite Co., 30 pieces of 2-foot curb corners	@ 2	10 each
James Beaton, 1,000 linear feet of 14-inch crosswalk		·
stone	(a)	.32 per foot

February 15th, the following prices were received from the sale of old buildings to be removed from Crawford and South Main streets, namely:

Martin E. Hogan for old custom house	\$165 00
Joseph A. Hogan for three buildings	290 00

March 13th, statements were prepared of the cost of curbstones set, ascertained by the commissioner and certified to the board of aldermen for approval, as follows:

Cleveland street, from easterly termination to Laurel Hill avenue	\$677 65
Eastwood avenue, from Ralph street to Laurel Hill avenue	721 99
Eastwood avenue, from Laurel Hill to Merino street	798 27
Elmdale avenue, from Whitehall street to Webster avenue	1,437 18
Laban street, from Laurel Hill to Merino street	747 17
Linton street, from Academy avenue to Canton street	754 14
Moulton street, from Westminster to Bewet	260 65
Ninth street, from North Main to Highland avenue	824 6C
Reservoir avenue, west side, from Algonquin street to Crescent	586 58
Reynolds avenue, from Prairie to Burnside street	841 44
Robin street, from Berkley to Regent avenue	665 59
Spencer street, from Almy to Harkness	470 62
Tiber street, from Ridge to Swiss	135 07
Wadsworth street, from Sorrento to Cranston	744 TX
Whitehall street, from Wallace to Union avenue	1,378 :0

\$11,075 45

March 23d, the proposal of Booth Brothers and Hurricane Isle Granite Company was accepted, to furnish and deliver at the city yard 10,000 square yards of granite blocks at \$1.49 per yard if delivered by rail, or \$1.47 per yard if delivered by water.

March 24th, the proposal of I. Capaldi and Company to furnish and deliver on What Cheer avenue 900 linear feet of curbing at 55 cents per foot, was accepted.

March 27th, the proposal of Arthur C. Gould to furnish and deliver on the line of the work 2,000 feet of granite curbing at 55 cents per linear foot, was accepted.

During the quarter the following work was completed:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

Oct. 19, 1905, Summit avenue from Fourth street to Seventh.

Jan. 18, 1906, Grotto avenue, from Penrose to Irving.

The following work was in progress March 31, 1906.

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

May 18, 1905, Narragansett avenue, from the city line northerly to a point about 120 feet north of Ardoene street.

Feb. 15, 1906, What Cheer avenue, from Laurel Hill to Pocasset.

. REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

Date of order.

May 18, 1905, Hope street, from Rochambeau avenue to the city line.

Dec. 21, 1905, Arthur avenue and Dean street, from
West Exchange to new bridge over
tracks of the New York, New Haven
and Hartford Railroad Company.

The following work, ordered by the board of aldermen and city council, had not commenced March 31, 1906, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

Sept. 21, 1905, Unit street from, Chalkstone avenue to Maynard street.

- Jan. 18, 1906, Andem street, from Canton to Bergen.
- " " Dixon street, from Elmwood arenue to Stamford.
- " " Baxter street, from Massic avenue to its southerly termination.
- " " Massie avenue, from Broad street to Baxter.
- " " Handy street, from Amsterdam to Amherst.
- " " Waverly street, from Union avenue to Cranston street.

Jan. 18, 1906, Taber avenue, from President to Lloyd.  " " Wallace street, from Priscilla avenue to	
Whitehall street.	
" " Dora street, from Webster avenue to White-	
hall street.	
" " Ralph street, from Eastwood avenue to Laben	
street.	
Feb. 15, 1906, Arthur avenue and Dean street, from West	
Exchange to new bridge over tracks of the N.	
Y., N. H. & H. R. R. Co.	
PAVE WITH GRANITE BLOCKS.	
Date of order.	
May 5, 1905, Sabin street, from West Exchange to Aborn.	
REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD	
Condition.	
Date of order.	
Jan. 18, 1906, Crawford street, from South Water to South	
Main and South Main street from Crawford	
to Planet.	
Bills approved on account of highways from January 1 to March 31, 1906, inclusive, amounted to:	
Regular appropriation.       \$61,554 85         Special appropriation.       50 22         ————       \$61,605 07	
Classified as follows:	
Crushed stone—material and labor	

Cleaning streets.....

Removing snow and ice.....

Amount carried forward...... \$45,977 35

7,167 67

6,055 80 3,196 04

2,908 45

	45,977 35	Amount brought forward
	2,376 C6	am rollers—repairs and supplies
	2,284 23	n expenses
	1,620 29 1,237 80	or on material
	804 47	ols, implements, etc
	641 09	pairs on paved streets
	442 00	perintendent's salary
	209 84	rses, wagons, harnesses, etc
	172 93	idries
	156 00	tchman at city yard
	83 50	ce expenses, city yard
	69 48	ncing streets—material and labor
	47 88	ilding driveways, etc
•	5 60	ephone lines
	21	pairs on buildings, highway yard
<b>\$</b> 56,128 73		,, , <b>.,</b> , <b>.</b>
<b>NG</b>	EBUILDI	NEW WORK — BUILDING AND I
		STREETS, ETC.
	AND	SIDEWALKS CURBED AND GUTTERS
		•
	<b>\$</b> 706 43	tto avenue from Penrose to Irving
		rragansett avenue, from the city line northerly to a point about 120 feet north of Ardoene
		to a point about 120 feet north of Midoche
	3,505 02	street
5,426 12	3,505 02 1,214 67	
5,426 12	1,214 67	street
	1,214 67	street
TION.	1,214 67	street
	1,214 67	street
TION.	1,214 67	street
50 22	1,214 67	street
50 22	1,214 67	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer from the control of the city treasurer from the c
50 22	1,214 67	street
50 22	1,214 67 DOOD COND	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer from the control of the city treasurer from the c
50 22 \$61,605 07	1,214 67 DOOD COND	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer for lection from January 1 to March 506, inclusive, amounted to
50 22 \$61,605 07	1,214 67 DOOD COND	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer felection from January 1 to March 206, inclusive, amounted to  As follows:
50 22 \$61,605 07	1,214 67 DOOD COND	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer felection from January 1 to March 206, inclusive, amounted to  As follows: cksmith and harness work for other departments
50 22 \$61,605 07	1,214 67 000D COND	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer is lection from January 1 to March 206, inclusive, amounted to  As follows:  cksmith and harness work for other departments e of old buildings, Crawford and South Main
50 22 \$61,605 07	1,214 67 DOD COND T , , \$187 65 455 00	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer felection from January 1 to March 206, inclusive, amounted to  As follows:  cksmith and harness work for other departments to of old buildings, Crawford and South Main streets
50 22 \$61,605 07	1,214 67  DOD COND  , , , , , , , , , , , , , , , , , , ,	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer felection from January 1 to March 20th, inclusive, amounted to
50 22 \$61,605 07	1,214 67  DOD COND  , , , \$487 65  455 00 338 25 201 78	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer flection from January 1 to March 2005, inclusive, amounted to .  As follows: cksmith and harness work for other departments to of old buildings, Crawford and South Main streets
50 22 \$61,605 07	1,214 67 DOD COND  , , , \$487 65 455 00 338 25 201 78 72 00	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer flection from January 1 to March 2005, inclusive, amounted to  As follows: cksmith and harness work for other departments to of old buildings, Crawford and South Main streets
50 22 \$61,605 07	\$\frac{1,214}{67}\$  DOD COND  \$\frac{487}{65}\$  \$\frac{455}{201} \frac{78}{78}\$  \$\frac{72}{60} \frac{77}{77}\$	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer felection from January 1 to March 20th, inclusive, amounted to  As follows: cksmith and harness work for other departments e of old buildings, Crawford and South Main streets
50 22 \$61,605 07	1,214 67  DOD COND  1, 1, 2, 3, 455 00 338 25 201 78 72 00 60 77 33 44	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer for lection from January 1 to March 200, inclusive, amounted to  As follows: cksmith and harness work for other departments to of old buildings, Crawford and South Main streets
50 22 \$61,605 07	\$\frac{1,214}{67}\$  DOD COND  \$\frac{487}{65}\$  \$\frac{455}{201} \frac{78}{78}\$  \$\frac{72}{60} \frac{77}{77}\$	REMOVE OBSTRUCTIONS, GRADE AND PUT IN woford street, from South Water to South Main, and South Main street, from Crawford to Planet  Bills deposited with the city treasurer felection from January 1 to March 20th, inclusive, amounted to  As follows: cksmith and harness work for other departments e of old buildings, Crawford and South Main streets

During	the	quart	er, coupoi	ıs fi		bills
collected	have	been	returned	by:	the	city
treasurer a	and re	ceipte	d for to t	he a	mott	at of

**43,**827 65

### As follows:

Labor and material	\$1,532	<b>3</b>
Building driveways, etc		6
Blacksmith and harness work for other depart- ments	•	15
streets	455	00
Street sweepings	378	25
Boarding horses for other departments	301	78
Manure from barn	73	000
Empty oil barrels	3	<b>3</b> 0
-	\$3,827	63

### SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from January 1 to March 31, 1906, inclusive, amounted to . . .

\$987 83

### Charged as follows:

Granite curbing	8496	10
Concreting sidewalks	460	48
Repairing sidewalks and gutters	29	25
<del>-</del>	<b>8987</b>	83

Bills deposited with the city treasurer for

collection from January 1 to March 31, 1996, inclusive, amounted to . . . \$11,107 88

### As follows:

Concreting sidewalks	12 67
Granite curbing	19 76
Curbing bills	\$11,075 45

During the quarter, coupons from bills

collected have been returned by the city treasurer and receipted for to the amount of **\$1,247 93** As follows: Curbing bills..... \$1,137 36 80 92 Granite curbing..... 16 98 Repairing sidewalks and gutters..... 12 67 Concreting sidewalks..... \$1,247 93 CITY ENGINEER. Bills approved on account of the city engineer's department from January 1 to March 31, 1906, inclusive, amounted to **\*11,811 00** Charged as follows: Salary — city engineer..... \$1,125 00 Salaries of assistants..... 9,400 67 789 75 Salaries of clerks..... Supplies - drawing material, etc..... 264 63 Car fares.... 201 05 Telephone lines..... 25 70 2 40 Sundries..... Meteorological instruments and repairs..... 1 25 Instruments and repairs..... 55

Bills deposited with the city treasurer for collection (for one small city map), from

returned by the city treasurer and receipted

for to the amount of

\$11,811 00

**\$** 25

### BRIDGES.

February 20th, the proposal of William M. Harris, Jr., to furnish and deliver 33,000 feet of yellow pine lumber at \$25.00 and \$26.00 per thousand, was accepted.

March 7th, contracts were awarded, and subsequently executed, for rebuilding the superstructures of the following bridges, namely:

 Building at city yard.
 1 33

 Cemetery street bridge.
 1 20

 Crawford street bridge.
 34 89

 Gaspee street bridge.
 12 45

 Horses, wagons, harnesses, etc.
 19 45

 Lumber, hardware, etc.
 86 03

 Manton bridge.
 3 97

 Manton avenue bridge.
 11 78

 Manton avenue bridge
 11 78

 Merino bridge
 2 65

 Mill street bridge
 5 37

 Point street bridge
 638 41

 Promenade street bridge
 2 25

 Randall street bridge
 8 23

 Red bridge
 334 41

 Rent of keeper's house—Washington bridge
 36 00

 Salaries—Point street bridge
 976 75

 Salaries—Red bridge
 513 50

 Salaries—Washington bridge
 521 21

Smith street bridge..... 3 52 Smithfield avenue bridge..... 22 75 27 00 Smithfield avenue bridge - to rebuild..... Sundries..... 258 94 Telephone lines.... 2 68 Tools..... 200 61 Washington bridge..... 257 54 Washington row bridge..... 8 88 40 51 Weybosset bridge.....

\$93 33

**<sup>\$4</sup>**,125 63

Bills deposited with the city treasurer for collection from January 1 to March 31, 1906, inclusive, amounted to	<b>\$44</b> 65
As follows:	
Lumber, hardware, etc	\$30 15 1\$ 50 1 00
_	\$44 65
During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of	<b>\$41</b> 65
•	
As follows:	
Lumber, hardware, etc	\$30 15 13 50 1 00
	<b>\$44</b> 65
Bills approved for account of building the river walls between the Burnside and Exchange bridges from January 1 to March 31, 1906, inclusive, have been paid from the special appropriation for that work, to the amount of	<b>\$</b> 1,369 87
Bills approved for account of rebuilding abutments, piers and superstructure, Point street bridge, from January 1 to March 31, 1906, inclusive, have been paid from the special appropriation for that work, to the amount of	<b>\$11</b> ,0 <b>2</b> 0 <b>2</b> 9

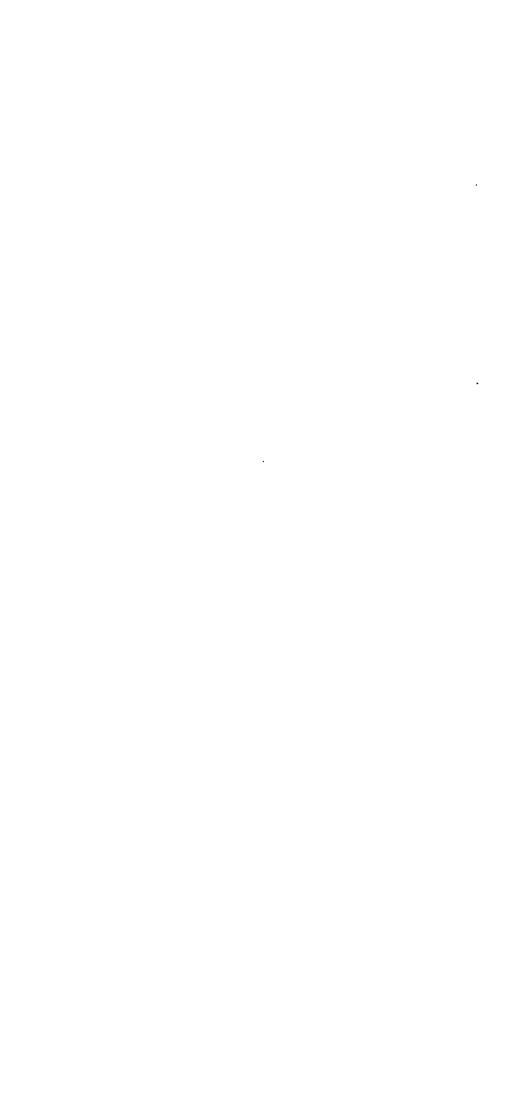
### ABOLISHING GRADE CROSSING AT GROVE STREET, Etc.

Bills approved for account of building retaining walls, etc., on Barre street, from January 1 to March 31, 1906, inclusive, have been paid from the special appropriation for that work, to the amount of . . .

**\*209 51** 

WALTER F. SLADE,

Commissioner.



# NINETY-FOURTH QUARTERLY REPOR

OF THE

## Department of Public

OF THE

CITY OF PROVIDENCE, R.

QUARTER ENDING JUNE 30, 19



The Providence Press: Snow & Farnham, City Printers, 63 Washington Street, 1906.

### NINETY-FOURTH QUARTERLY REPO

# Department of Public

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1906.



The Providence Press: SNOW & FARNHAM, CITY PRINTERS, 63 Washington Street,



### REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., July 1, 1906.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the ninety-fourth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending June 30, 1906.

### WATER WORKS.

April 10th, the proposal of the Warren Foundry & Machine Company to furnish and deliver in the city yard 1,537 tons of cast-iron water pipe at \$29.80 per net ton, was accepted.

April 11th, the proposal of The Congdon & Carpenter Company to furnish and deliver at the city yard five tons of St. Joe pig lead at \$5.65 per hundred pounds, was accepted.

April 16th, the proposal of A. S. Corr to inspect 1,537 tons of water pipe at the foundry of the Warren Foundry & Machine Company for the sum \$153.70, was accepted.

June 11th, the proposal of the Pettaconsett Construction ild two additional filter beds, and to cover

the eight beds now built, at Pettaconset pumping station, was accepted and a contract subsequently executed. Amount **\*295,066.66**.

June 21st, the following proposals for furnishing the coal required by the water department for one year to July 1, 1907, were accepted, viz.:

Providence Coal Company, for New River coal at Pettaconset, \$3.72 per net ton, delivered.

Providence Coal Company, for anthracite at Pettaconset, \$5.75 per net ton, delivered. Providence Coal Company, for anthracite at pipe yard, \$5.20 per net

ton, taken at company's yard. Eastern Coal Company, for No. 2 North American red ash at Hope Station, \$2.88 per net ton, delivered.

The average daily consumption of water during the last quarter was 15,062,873 gallons.

Water pipes were laid during the quarter as follows:

12-інсн.	
In Hope street and Allens avenue	982.79 feet.
8-inch.	
In Woodward road; in Narragansett boulevard, Narra- gansett street, Pawtuxet and Pontiae avenues in the town of Cranston; in Smith street and River avenue in town of North Providence	8,175 ½2 feet
6-inch.	
In Rodgers court: Dora, Glover, Huron, Kimball, Lauris- ton, Moorefield, Magnolia and Smith streets: Summit, Terrace and Whitford avenues: in Alto, Heather and Narragansett streets and Norwood avenue in the town	
of Cranston	3,658.16 feet.
Total	12.816.17 feet.
Water pipes have been removed during the follows:	quarter as

follows:

GINCH.

From Ashton and Merchant streets ..... 613.48 feet. or  $.116 \pm miles$ .

Statement of sizes and lengths of pipe laid since the commencement of the work:

42-inch	4,979.49 feet.
36-inch	10,207.57 feet.
30-inch	61,328.30 feet
24-inch	43,293.86 feet.
20-inch	9,626.59 feet.
16-inch	34,327.95 feet.
12-inch	111,818.16 feet.
10-inch	15,057 14 feet.
8-inch	304,136.84 feet.
6-inch	1,272,603.65 feet.
Total	1,867,379.35 feet.
or, 353.670 + miles.	

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

Total	29,517.59 feet.
12-inch	2,215.76 feet.
16-inch	23,004.37 feet
24-inch	4,297.46 feet

or, 5.59 + miles.

.. 1

Ten fire hydrants were set during the quarter, one in each of the following locations:

Allens avenue, east side, 239 feet north of Henderson street.

Hope street, east side, 2 feet north of line of Eighth street.

Summit avenue, east side, 3 feet south of Glendale avenue.

River avenue, North Providence, west side, 1901 feet south of Zipporah street.

River avenue, North Providence, west side,  $711\frac{1}{2}$  feet south of Zipporal street.

River avenue, North Providence, west side, opposite Allendale park.

River avenue, North Providence, west side, 387 feet south of George street.

Smith street, North Providence, south side, 3 feet west of Mineral Spring avenue.

Smith street, North Providence, south side, 278½ feet west of Waterman avenue.

Smith street, North Providence, south side, 14½ feet west of River avenue.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and seventy-five — nineteen hundred and fifty-five flush, and one hundred and twenty post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter two hundred and forty-four water meters were set, of which number forty-one were to replace other meters. The use of sixteen meters was discontinued.

The following meters were in use at the close of the quarter:

KIND.	SIZE.						7			
	g-in.	₃-in.	1-in.	1∦-in,	2-in.	3-in.	4-in.	6-in.	8-in.	Total
Ball & Fitts	1,792	370	87	9	4			,		2,263
Ball & Fitts, rotary	*****		4	6		2	1			13
Crown	9,774	1,223	362	158	. 49	32	27	1		11,63
Empire	1,443	180	77	51	14	1	1	*****		1,765
Fales, Jenks & Sons	000		1							1
Gem	an.		12.1121		17	30	19	3		- 60
Hersey	24								10000	24
Nash	268		*****				ours.			203
Thomson	4,784						7	2		5,373
Prident	103		1					am	1060	100
Venturi				.,,,,,	irini		. ,		1	1
	18,188	2,194	606	278	106	72	55	-6	1	21,500

Four plumbers' licenses were issued during the quarter. One plumber's license has been suspended; one plumber's license revoked and one plumber has deceased. The total

number of licenses in force June 30, 1906, was one hundred and twenty-two.

Six hundred and ninety plumbing permits were issued during the quarter.

Two hundred and eighteen applications for water were made during the quarter making the total number twentyseven thousand six hundred and seventy-five.

The number of new service stops opened during the quarter was one hundred and ninety-six.

The total number of service stops opened to June 30, 1906, inclusive, was twenty-six thousand nine hundred and sixty-eight. The number in actual use June 30, 1906, was twenty-four thousand eight hundred and sixty-one.

The amount of bills approved on account of water works from April 1, to June 30, 1906, inclusive, was:

### Classified as follows:

### PETTACONSET PUMPING STATION.

Coal and wood	<b>\$</b> 3,799 <b>84</b>	
Cornish engine house	1,484 39	
Sundries	1,232 77	
Firemen	929 20	•
Engineers	584 50	
Superintendence	442 00	
Care of grounds	428 70	
Labor on fuel	188 10	
Repairs on boilers	117 60	
Oil, waste and packing	106 34	
Barn expenses	84 33	
Real estate	64 25	
Lights	27 30	
Allis-Chalmers high-duty engine	21 76	
Worthington high-duty engine	16 80	
Horses, wagons, harnesses, etc	4 42	
_		<b>\$</b> 9,532 30
Amount carried forward	_	\$9,532 30

Amount brought forward		\$9,532 30
SAND FILTRATION PLANT.		
Installation Labor, pumping Cleaning beds Laboratory — labor and supplies Washing sand Miscellaneous supplies Care of grounds	\$26,603 58 1,735 60 1,611 08 681 41 408 35 251 02 45 60	31,336 64
Sockanosset Reservoir.		•
Sundries Watchman	\$355 85 182 00	337 <b>8</b> 5
HOPE PUMPING STATION.		
Coal and wood  Engineers  Firemen  Sundries  Lights  Oil, waste and packing  Holly pumping engine  Repairs on boilers	\$1,138 39 45 29 406 40 258 48 38 19 15 53 1 93 35	
HOPE RESERVOIR.		2,312 36
Sundries	<b>\$2,403</b> 67 204 75	2,608 42
FRUIT HILL RESERVOIR.		
Sundries	\$473 81 182 00	655 81
METER DEPARTMENT.		
Water meters Setting and repairing meters	\$2,035 22 1,425 36	3,460-58
PIPE LINE AND SERVICE STOP	8.	
Repairs. Salaries of assistant engineers. Superintendence — salaries. Inspection of pipe line and services.	\$3,404 25 1,011 13 874 25 732 30	6,021 93
Amount carried forward		<b>\$56,4</b> % 09

PIPE YARD.			<b>\$56,466</b> 09
THE TABLE			
Cast iron water pipe	\$72,942	90	
Leading main from Sockanosset to city — to lay	19,327	57	
Laying water pipe	11,248	12	
Special castings	8,188	64	•
Fire hydrants, boxes and covers	3,115	53	
Stop valves	2,568	76	
Laying service pipe	1,497	01	
Service pipe	1,340		
Labor on and carting pipe	1,079		
Pig lead and tin	644		
Tools	476		
Tape and stops	406		
Pipe yard, office expenses	8	48	100 044 88
Miscellankous.			122,844 55
Clerks' and inspectors' salaries	<b>\$</b> 1,752	40	
Barn expenses	853		
Prevention of defilement of the Pawtuxet	551	-	
Car fares	550		
Horses, wagons, harness, etc	464		
Telephone lines	122		
Sundries		89	
Public drinking fountains and troughs		08	
			4,305 58
			<b>\$</b> 183,616 22
	ሰፍ		
The total expenditures to June 30, 19	ου,		
-		0,6	607,922.22
inclusive, was	<b>\$1</b>	ine	507,922.22
inclusive, was  The net expenditure for maintenance from Apri 30, 1906, inclusive, was	#1	ne	\$175,552 60
inclusive, was	#1 1 to Ju	ine	<b>\$</b> 175,552 <b>60</b>
inclusive, was	#1 1 to Ju	ine	<b>\$</b> 175,552 <b>60</b>
inclusive, was	\$1 1 to Ju  1906, inc	ine	<b>\$</b> 175,552 60
inclusive, was	\$1 1 to Ju  1906, inc	ine	<b>\$</b> 175,552 60
inclusive, was	#1 1 to Ju 1906, inc	ine	<b>\$</b> 175,552 <b>60</b>
The net expenditure for maintenance from Apri 30, 1906, inclusive, was	#1 1 to Ju 1906, inc	ine	<b>\$</b> 175,552 <b>60</b>
The net expenditure for maintenance from Apri 30, 1906, inclusive, was	#1 1 to Ju 1906, inc	ine	<b>\$</b> 175,552 <b>60</b>
The net expenditure for maintenance from Apri 30, 1906, inclusive, was	#1 1 1 to Ju 1906, me	ine  :lu-	<b>\$</b> 175,552 <b>60</b>
The net expenditure for maintenance from Apri 30, 1906, inclusive, was	#1 1 1 to Ju 1906, me	ine  elu- 	<b>\$</b> 175,552 <b>60</b>
The net expenditure for maintenance from Apri 30, 1906, inclusive, was	\$1 1 to Ju 1906, me 1906, me ity \$340,694 120,778 691,498	oo 78 68	<b>\$</b> 175,552 <b>60</b>
The net expenditure for maintenance from Apri 30, 1906, inclusive, was	\$1 1 to Ju 1906, me 1906, me ity \$340,694 120,778 691,498	oo 78 68	<b>\$</b> 175,552 <b>60</b>
The net expenditure for maintenance from Apri 30, 1906, inclusive, was	\$1 1 to Ju 1906, me ity \$340,694 120,778 691,498 2,768,494	00 78 68 94	<b>\$</b> 175,552 <b>60</b>
The net expenditure for maintenance from Apri 30, 1906, inclusive, was	\$1 1 to Ju 1906, me 1906, me ity \$340,694 120,778 691,498	00 78 68 94 00	<b>\$</b> 175,552 <b>60</b>

Bills deposited with the city treasurer for collection from April 1 to June 30, 1906, inclusive, amounted to . . .

889,796 58

### As follows:

Water	\$81,887	40	
Water meters	3,780	25	
Labor and material, laying services, etc	1,901	18	
Setting and repairing meters	1,628	83	
Old scrap metals	282	45	
Repairs on pipe line	117	27	
Rent of real estate	105	50	
Penalties	42	00	
Empty meter cases	20	50	
Permanently closing service stops	15	00	
Empty oil barrels	11	20	
Second hand drinking trough	5	00	
•		_	\$89,796 58

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of

**\$91,069 26** 

### As follows:

Water	\$82,963	64	
Water meters	3,869	50	
Labor and material, laying services, etc	2,128	18	
Setting and repairing meters	1,509	02	
Old scrap metals	282	45	
Repairs on pipe line	117	27	
Rent of real estate	105	50	
Penalties	42	00	
Empty meter cases	20	50	
Permanently closing service stops	15	00	
Empty oil barrels	11	20	
Second hand drinking trough	5	00	
-		_	\$91,069 26

#### SEWERS.

Six drain layers' licenses were issued during the quarter. One drain layer has deceased. One license has been revoked. One license has been suspended. One hundred and thirty-five licenses were in force June 30, 1906.

During the quarter, three hundred and sixty permits were issued to drain layers — one hundred and ninety-five for new work and one hundred and sixty-five for extensions and repairs of drains.

June 18th, contracts for the construction of sewers were awarded to the following parties and subsequently executed, viz.:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials.]

TO FREDERICK E. SHAW.

No. of resolution. Date of approval.

208. May 8, 1906, Plenty street, from the summit to Elmwood avenue; in Linden street, from West Clifford about 80 feet northerly and in Sorrento street, from Union avenue to Waverly street . . .

**\$847** 50

[ Na 18.

TUM its Bills deposited with rater**lu**for collection from .' 1906, inclusive, amo somel ! it : As follows: meterly in Water..... and Douglas avenue Water meters.. N present end of sewer Labor and mate Setting and re bout 270 feet west of Old scrap me **\$1,464** 85 Hawkins street Repairs on at of r Plainfield street, from altie near Lowell avenue to Laurel Hill . 1,544 70 Sackett street, from Elmwood avenue to Melrose 708 40 street

### To GEORGE R. NEWMAN.

June 21st, the following proposals were accepted for furnishing the coal required by the sewer department for one year ending July 1, 1907, viz.:

one year ending July 1, 1907, viz.:

Providence Coal Company, for New River lump at sewage precipitation tanks, \$3.85 per net ton, delivered.

for New River lump and run of mine, \$3.45 and \$3.05 per net ton, respectively, and for anthracite \$5.20 per ton, all taken at company's yard.

Eastern Coal Company, for anthracite at sewage precipitation tanks \$5.54

per net ton delivered.

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution. Date of approval. Date of completion Dec. 8, 1905, Massie avenue, from 410. Broad street to Baxter; in Baxter street, from Massie avenue to its southerly termination; and in right of way from Baxter street . June 19, 1906. to Oxford, 411. Waverly street, from Cranston to Union avenue, . . June 2, 1906. 413. Dixon street, from Sanford avenue to Elmwood, April 28, 1906. 414. Handy street, from Am-

Work upon the following sewers was in progress at the close of the quarter, namely:

herst to Amsterdam, . May 30, 1906.

No. of resolution. Date of approval.

68. Feb. 7, 1905, Pleasant Valley Division, Section 31. Dec. 8, 1905, Dora street, from about 100 feet east of Webster avenue to Priscilla and from about 100 feet east of Priscilla avenue to Whitehall street; also in Wallace street, from Priscilla avenue to Whitehall street.

- 412. Taber avenue, from Lloyd to President. 417. Thayer street, from Barnes to Angell
- (storm sewer).

209.	May	8, 1906	Neazie street, from its summit northwesterly to the sewer in Douglas ave- nue near Stansbury street and from its summit southeasterly in V-azie street and Douglas ovenue to present end of sewer abov 'eet west of		
			et	\$1,464	85
210.	66	44 44	Pla ld street, from near Lowell avenue to Laurel Hill	1,544	70
211.	"	"	Sackett street, from Elm- wood avenue to Melrose	_,0	
•			atreet	708	40

### To George R. Newman.

212. May 8, 1906, Kelly street, from the angle in Kelly street to Bancroft and in Longmont street, from Salina to Admiral

748 60

June 21st, the following proposals were accepted for furnishing the coal required by the sewer department for one year ending July 1, 1907, viz.:

Providence Coal Company, for New River lump at sewage precipitation tanks, \$3.85 per net ton, delivered. for New River lump and run of mine, \$3.45 and \$3.05 per net ton, respectively, and for anthracite \$5.20 per ton, all taken at company's yard.

Eastern Coal Company, for anthracite at sewage precipitation tanks \$5.54 per net ton delivered.

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution. Date of approval. Date of completion Dec. 8, 1905, Massie avenue, from 410. Broad street to Baxter; in Baxter street, from Massie avenue to its southerly termination; and in right of way from Baxter street to Oxford, . June 19, 1906. 411. Waverly street, from Cranston to Union . June 2, 1906. avenue, . 413. Dixon street, from Sanford avenue to Elmwood, April 28, 1906.

Work upon the following sewers was in progress at the close of the quarter, namely:

Handy street, from Am-

herst to Amsterdam, . May 30, 1906.

No. of resolution. Date of approval.

414.

- 68. Feb. 7, 1905, Pleasant Valley Division, Section 31.
  409. Dec. 8, 1905, Dora street, from about 100 feet east
  of Webster avenue to Priscilla and from
  about 100 feet east of Priscilla avenue
  to Whitehall street; also in Wallace
  street, from Priscilla avenue to Whitehall street.
- 412. " " Taber avenue, from Lloyd to President.
  417. " " Thayer street, from Barnes to Angell (storm sewer).

No. of resolution. Date of approval.

212. May 8, 1906, Kelly street, from the angle in Kelly street to Bancroft street and in Longmont street, from Salina to Admiral.

Work upon the following sewers, completing the work ordered by the city council, had not commenced June 30, 1906, namely:

No. of resolution. Date of approval.

288. Sept. 12, 1905, West River street, from Cross to Burke and from West River street at Elk easterly through right of way about 530 feet to end of Section 22 of the improved sewerage system.

415. Dec. 8, 1905, Eudora street, from near Eddy to Poe. and in Poe street, from near Rhodes to Public.

208. May 8, 1906, Plenty street, from the summit to Elmwood avenue; in Linden street, from West Clifford about 80 feet northerly and in Sorrento street from Union avenue to Waverly street.

209. " " Veazie street, from its summit northwesterly to the sewer in Douglas avenue near Stansbury street and from its summit southeasterly in Veazie street and Douglas avenue to present end of sewer

about 270 feet west of Hawkins street. 210. " " Plainfield street, from near Lowell avenue to Laurel Hill.

211. " " Sackett street, from Elmwood avenue to Melrone street.

The amount of bills approved on account of sewers from April 1 to June 30, 1906, inclusive, was:

For construction,		<b>\$54,5</b> 80	38
Charged as follows:			
Material	\$10,050	45	
Contract reservations	438		
Testing cement	308		
Additional catch-basins	196		
Sundries	161	50	
Tools		60	
Sewer in Dixon street, from Stamford avenue to			
Elmwood	527	08	
Sewer in Dora and Wallace streets	1,052	31	
Sewer in Handy street, from Amherst to			
Amsterdam	737		
Sewer in Kelly and Longmont streets	101	97	
Sewer in Massie avenue, Baxter street and in right			
of way	922		
Sewer in Taber avenue, from Lloyd to President.	604	58	
Sewer in Thayer street, from Barnes to Angell	. =0		
(storm sewer)	1,766	43	
Sewer in Waverly street, from Cranston to Union avenue	964	04	
Sewer in Pleasant Valley Division, Section 31	36,747		
Dewot in Fleadaire variety 1717 lotter, Decelor wi			
		\$54,58	30 39
		400 105	
For maintenance,	•	<b>\$30,465</b>	28
Classified as follows:			
Cleaning basins and sewers	\$6,794	36	
Repairing basins and sewers	2,793	10	
Tools	965	71	
Cleaning and repairing old drains	730	93	
Inspection of connections	691	08	
Barn expenses	508	22	
Salary, superintendent	442		
Sundries	389		
Horses, wagons, harnesses, etc	247		
Cleaning private connections	50		
Telephone lines	35	93	
Telephone linesOffice expenses	35 12	93 86	
Telephone lines	35 12 10	93 86 00	
Telephone linesOffice expenses	35 12 10	93 86	

	\$13,678 8	4
Ernest Street Station.		
Coal and wood	1,316 10	D
Repairs on engines	1,016 8	2
Engineers	850 11	Į.
Cleaning screens	638 53	3
Firemen	420 47	7
Cleaning and repairing pumps	255 8	3
Care of grounds	116 81	
Supplies	106 76	5
Repairs on boilers	20 90	
Lights	15 10	
Care of buildings	8 00	5
	<b>\$</b> 18,444 36	5
SEWAGE PRECIPITATION TAN	<b>K</b> 8.	
Chemicals	4,890 20	)
Labor in sludge disposal	2, <b>55</b> 6 03	3
Miscellaneous supplies	2,406 54	1
Labor on sewage precipitation	1,456 63	<b>;</b>
Electrical power	484 00	)
Repairs on machinery	141 01	
Fuel	67 22	
Lights	18 80	
Repairs on buildings	42	
	\$30,465 2	<b>;</b>
The net expenditure for construction of sewer 30, 1906, inclusive, was		
The net expenditure for maintenance of sewe		
30, 1906, inclusive, was		\$1,328,394 5
Bills deposited with the city treasu		
Bills deposited with the city treasu for collection from April 1 to June	30,	
	30,	\$862 4
for collection from April 1 to June	30,	\$862 4.
for collection from April 1 to June 1906, inclusive, amounted to		•
for collection from April 1 to June 1906, inclusive, amounted to	30, 8278 78 98 75	,
for collection from April 1 to June 1906, inclusive, amounted to	8278 78	1
for collection from April 1 to June 1906, inclusive, amounted to	8278 78 98 75	1 1
for collection from April 1 to June 1906, inclusive, amounted to	\$278 78 98 75 17 15	i i
for collection from April 1 to June 1906, inclusive, amounted to	\$278 78 98 75 17 15 10 00	

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount				
of			<b>\$</b> 759	19
As follows:				
Miscellaneous work	195	77		
Cleaning private connections	74	25		
Old manhole frames and covers	20	50		
One valve mould	10	00		
Empty oil barrels	5	60		
	452	17		
Testing cement		90		
*	759	19		

### HIGHWAYS.

Six permits to open highways were issued during the quarter.

April 23d, the proposal of Gaetano Cardarelli to furnish and deliver 1000 linear feet of granite curbing on Unit street for the sum of 55 cents per foot, was accepted.

April 27th, statements were prepared of the cost of curbstones set, ascertained by the commissioner and certified to the board of aldermen for approval, as follows:

Barre street, from Ridge to Bell	. \$1,715	51
Grand street, from Potters avenue to Huntington	856	69
Everett avenue, from Arlington to Elmgrove	. 1,488	29
Nebraska street, from Eddy to Rugby	. 600	70
Summit avenue, from Fourth to Seventh	. 1,043	03
	\$5,704	22

Date of order.

June 9th, the proposal of the Narragansett Improvement Company to furnish and lay a wearing coat of Uralde sheet asphalt in Eddy street, from Westminster to Fulton, at \$1.50 per square yard, was accepted.

June 21st, the proposal of the Providence Coal Company to furnish at their yard the coal required by the highway department for one year ending July 1, 1907, was accepted as follows, viz.:

For New River run of mine \$3.05 per net ton, lump \$3.45 per net ton, anthracite \$5.20 per net ton.

During the quarter the following work was completed:
SIDEWALKS CURBED AND GUTTERS PAVED.

17890 0	i oruci.		
May	18,	1905,	Narragansett avenue, from the city line northerly to a point about 120 feet north of Ardoene street.
Sept.	21,	1905,	Unit street, from Chalkstone avenue to Maynard street.
Oct.	19,	1905,	Summit avenue, from Fourth street to Seventh.
Jan.	18,	1906,	Andem street, from Canton to Bergen.
"	"	"	Dixon street, from Elmwood avenue to Stamford.
**	"	44	Grotto acenue, from Penrose to Irving.
"	**	"	Ralph street, from Eastwood arenue to Laban street.
Feb.	15,	1906,	What Cheer avenue, from Laurel Hill to Pocasset.
••	**	66	Arthur avenue and Dean street, from West Exchange to new bridge over tracks of the New York, New Haven and Hartford Railroad Company.
May	17,	1905,	Ellery street, from Wendell to Union avenue.

### PAVE WITH GRANITE BLOCKS.

May 5, 1905, Sabin street, from West Exchange to Aborn.

REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

Dec. 21, 1905, Arthur avenue and Dean street, from West Exchange to new bridge over tracks of the New York, New Haven and Hartford Railroad Company.

The following work was in progress June 30, 1906.

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

Jan. 18, 1906, Handy street, from Amsterdam to Amherst.

" " Waverly street, from Union avenue to Cranston street.

" " Wallace street, from Priscilla avenue to Whitehall street.

REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

Date of order.

May 18, 1905, Hope street, from Rochambeau avenue to the city line.

Jan. 18, 1906, Crawford street, from South Water to South Main, and South Main street, from Crawford to Planet.

The following work, ordered by the board of aldermen and city council, had not commenced June 30, 1906, namely:

### SIDEWALKS CURBED AND GUTTERS PAVED.

Date of o	rder.		
Jan.	18,	1906,	Baxter street, from Massie avenue to its southerly termination.
"	"	"	Massie avenue, from Broad street to Baxter.
44	4	**	Taber avenue, from President to Lloyd.
"	"	44	Dora street from Webster avenue to Whitehall street.
May	17,	1906,	Sorrento street, from Union avenue to Waverly street.
"	"	66	Sackett street from Elmwood avenue to Melrose street.
"	66	66	Longmont street from Admiral to Salina.
June	21,	1906,	Eudora street from Eddy to Poe.
"	"	"	Poe street from Rhodes to Public.
	"	"	Dean street from Cedar to West Exchange.

REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

Date of order.

June 21, 1906, River avenue, from Eaton street to Smith street.

Bills approved on account of highways from April 1 to June 30, 1906, inclusive, amounted to:

Regular appropriation	\$105,628	60	
Special appropriation	6,919	23	
			\$112,547 83

Classified as follows:			
Cleaning streets	\$24,466	55	
Repairs on unpaved streets	17,349	92	
Crushed stone—material and labor	14,687	85	
Stone—paving and crosswalk	8,367	02	
Repairs on paved streets	4,591	97	
Barn expenses	3,088	91	
Blacksmith and wheelwright shop	2,:36	61	
Watering streets	1,677	55	
Tools, implements, etc	744	67	
Repairs on stone crushers	714	53	
Labor on material	647	22	
Fencing streets—material and labor	591	36	
Sundries	573	04	
Horses, wagons, harnesses, etc	533	16	
Steam rollers—repairs and supplies	507	47	
Superintendent's salary	442	00	
Building driveways, etc	197	29	
Watchman at city yard	156	00	
Repairs on buildings, highway yard	42	54	
Office expenses, city yard	36	66	
Car fares	30	00	
Telephone lines	5	60	
			\$81,787

### NEW WORK — BUILDING AND REBUILDING STREETS, ETC.

### SIDEWALKS CURBED AND GUTTERS PAVED.

Andem street, from Canton to Bergen	<b>\$</b> 1,484 48	
Dixon street, from Elmwood avenue to Stamford	922 63	
Ellery street, from Wendell to Union avenue	1,753.55	
Grotto avenue, from Penrose to Irving	1,381 69	
Handy street, from Amsterdam to Amherst	727 72	
Narragansett avenue, from city line northerly		
to a point about 120 feet north of Ardoene		
street	2,422 69	
Ralph street, from Eastwood avenue to Laban street	501 88	
Summit avenue, from Fourth street to Seventh	312 66	
Unit street, from Chalkstone avenue to Maynard		
street	4,358 40	
Wallace street, from Priscilla avenue to Whitehall		
street,	271 58	
Waverly street, from Union avenue to Cranston		
street	1,895 71	
What Cheer avenue, from Laurel Hill to Pocasset	1,941 44	
		17,974 43
Amount carried forward		\$99,762 35

Amount brought forward	\$99,782 1
PAVE WITH GRAHITE BLOCKS	L .
Sabin street, from West Exchange to Aborn	5,007 9
REMOVE OBSTRUCTIONS, GRADE AND PUT IN	Good Condition.
Hope street, from Rochambeau avenue to city line	\$858 34
(rawford street, from South Water to South Main,	
and South Main street, from Crawford to Planet	6,919 <b>23</b> 7,777 5
	\$112,547 8
D11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- ,
Bills deposited with the city treasurer f	
collection from April 1 to June 30, 190	6,
inclusive, amounted to	<b>. \$2,577</b> 80
A 6.33	
As follows:	
Labor and material	\$1,175 73
ments	550 80
Street sweepings	317 35
Building driveways, etc	253 82
Boarding horses for other departments  Manure from barn	185 90 72 00
Removing tree	10 00
Empty oil barrels	8 20
Old rubber belting	4 00
_	\$2,577 80
During the quarter, coupons from bil	le
collected have been returned by the cit	
treasurer and receipted for to the amount	•
treasurer and receipted for to the amount of	01 71,300 19
As follows:	
Labor and material	\$700 06
Blacksmith and harness work for other depart-	
ments	487 ri3
Street sweepings	317-35 185-90
Building driveways, etc	167 92
Manure from barn	72 00
Removing tree	10 00
Empty oil barrels	8 20
Old rubber belting	. 4 (0)

\$1,953 10

### SIDEWALKS AND CURBING.

Bills approved on account of sidewal and curbing from April 1 to June 3 1906, inclusive, amounted to	30,	<b>\$11,186 77</b>
Charged as follows:		
Granite curbing		
· · · · · · · · · · · · · · · · · · ·	\$11,186	77
Bills deposited with the city treasur	rer	
for collection from April 1 to June 3	30,	
1906, inclusive, amounted to		<b>\$5,909</b> 98
As follows:		
Curbing bills	\$5,704	22
Granite curbing	189	
Concreting sidewalks	16	40
-	\$5,909	98

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$\ \\$6,202 61

### As follows:

Curbing bills	
-	<b>\$</b> 6,202_61

### CITY ENGINEER.

Bills approved on account of the city engineer's department from April 1 to June 30, 1906, inclusive, amounted to . . .

\$11,025 75

### Charged as follows:

Salary—city engineer	\$1,125	00
Salaries of assistants	8,417	36
Salaries of clerks	813	75
Car fares	402	35
Instruments and repairs	117	88
Supplies, drawing material, etc	113	72
Telephone lines	25	70
Carriage bire	6	90
Sundries	2	(19
Meteorological instruments and repairs	1	00
	\$11.025	75

### .BRIDGES.

April 6th, the proposal of the Pittsburgh Testing Laboratory, Limited, to inspect the material for the superstructures of the Point street and Smithfield avenue bridges for the sum of thirty cents per ton for mill inspection, and forty cents per ton for shop inspection, was accepted.

May 5th, the proposal of William M. Harris Jr., to furnish and deliver at the city yard 42,000 feet of white oak plank of various widths and lengths for \$29.90 per M., was accepted.

June 21st, proposals for furnishing and required by the various bridges for one year	U
were accepted as follows, viz.:	n w sury 1, 1301,
Providence Coal Company, for New River lump,  Eastern Coal Company, for Anthracite	
Bills approved on account of bridges from	m
April 1 to June 30, 1906, inclusive	е,
amounted to	. \$4,981 44
Charged as follows:	
Barn expenses	\$127 94
Branch avenue bridge	2 35
Carfares	25 00
Crawford street bridge	17 45
Horses, wagons, harnesses, etc	14 70
Lumber, hardware, etc	420 88
Manton avenue bridge	37 55
Merino bridge	114 08
Mill street bridge	6 30
Nash lane bridge	108 10
Point street bridge	663 67
Promenade street bridge	14 85
Randall street bridge	4 80
Red bridge	584 27
Rent of keeper's house — Washington bridge	36 00
Salaries — Point street bridge	978 25
Salaries — Red bridge	513 50
Salaries — Washington bridge	523 10
Smithfield avenue bridge	23 28
Sundries	69 92
Telephone lines	2 68
Tools	93 15
Veazie street bridge	3 52
Wanskuck bridge	15 71
Washington bridge	142 64
Washington row bridge	2 70
Weybosset bridge	100 05
Whelden street bridge	335 00

Bills deposited with the city treasurer for collection (for old lumber), from April 1 to June 30,1906, inclusive, amounted to .

**\$4** 50

\$4,981 44

84 50

\$18,200 74

During the quarter, coupons from bills collected (for old lumber), have been	
returned by the city treasurer, and receipted	
for to the amount of	
Bills approved for account of rebuilding	
abutments, piers and superstructure of Point	
street bridge, from April 1 to June 30,	
1906, inclusive, have d from the	

### PUBLIC LIGHTS.

Bills approved or	n a	ccoun	t of	the	public	;
lights from April 1	to	June	30,	1906,	inclu-	•
sive, amounted to						

special appropriation for that work, to the

**\$**69,299 56

### Charged as follows:

amount of

Arc lights	\$49,457 91
Incandescent lights	13,161 87
Welsbach lights	6,366 68
Salaries	295 00
Car fares	10 00
Setting and removing gas posts	7 75
Supplies for repairing posts and lanterns	35
	<b>9</b> 60 200 56

Bills deposited with the city treasurer for collection from April 1 to June 30, 1906, inclusive, amounted to . . .

\$12 00

As follows:			
One gas post	\$8 00 4 00		
<del></del>	\$12 00		
During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of	7	<b>*</b> 12	00
One gas post	\$8 00 4 00		
	<b>\$</b> 12 00		

### PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from April 1 to June 30, 1906, inclusive, amounted to . . . .

**\*4,968 74** 

### Charged as follows:

Salaries of commissioner and secretary	\$1,850	00
Salaries of office assistants	2,999	98
Office supplies	98	81
Telephone lines	19	95
	<b>8</b> 4 069	74

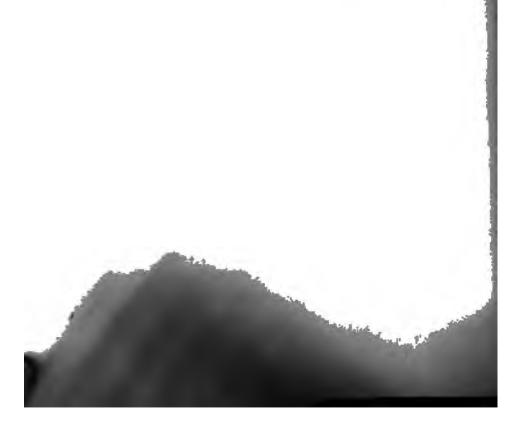
# ABOLISHING GRADE CROSSING AT GROVE - STREET, Etc.

Bills approved for account of building approaches to Arthur avenue bridge, from April 1 to June 30, 1906, inclusive, have been paid from the special appropriation for that work to the amount of . . .

\$6,234 59

WALTER F. SLADE,

Commissioner.



MAR'I 1907

1906.]

CITY DOCUMENT.

### NINETY-FIFTH

## QUARTERLY REPORT

OF THE

# Department of Public W

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING SEPTEMBER 30, 1



The providence press:

SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street,
1906.

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1906.]

CITY DOCUMENT.

### NINETY-FIFTH

## QUARTERLY REPOR

OF THE

# Department of Public

OF THE

CITY OF PROVIDENCE, R.

QUARTER ENDING SEPTEMBER 8



The Providence Press:

SNOW & FARNHAM, CITY PRINTERS,

53 Washington Street,

1906.

1900.

THE NEW YORK
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P 1 90 9

ASTOR, LENEX AND
THEORN PROPORTIONS
1807

### REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., October 1, 1906.

### TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the ninety-fifth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending September 30, 1906.

### WATER WORKS.

July 9th, the proposal of Charles Crankshaw to do the extra grading in connection with the laying of a water main in River avenue, between Eaton and Smith streets, for the sum of thirty five cents per cubic yard, was accepted.

The proposal of Lucien Lalime to move, raise and repair a building located on the right of way for the 42-inch leading main in the town of Cranston, for the sum of \$1,200.00, was accepted.

July 12th, the proposal of the Coffin Valve Company to furnish and deliver at the city yard fourteen 16-inch vertical bell-end water gates with spur gears and by-passes, twelve 16-inch bevel-geared horizontal gates, four 12-inch vertical gates without gears, and one 12-inch bronze mounted check valve, was accepted by the Commissioner. Amount, \$2,193.00.

July 14th, the proposal of the Coffin Valve Company to furnish and deliver fourteen indicators for 16-inch water gates at \$15.00 each, was accepted.

July 18th, the proposal of the Coffin Valve Company to furnish and deliver at the city yard thirty-two special high-service fire hydrants complete with gates, etc., at \$148.80 each, and six additional gates at \$38.00 each, was accepted.

The average daily consumption of water during the last quarter was 15,625,207 gallons.

Water pipes were laid during the quarter as follows:

24-inch.	
In Broadway and Harris avenue	3,110.87 feet.
16-інсн.	
In Admiral street and River avenue	3,101.25 feet.
12-імен.	
In Allens and River avenues; in Cranston street and Dyer avenue in the town of Cranston	509.88 feet.
10-інсн.	
In Admiral street	5.64 feet.
8-ілсн.	
In Admiral and Eaton streets and Harrisavenue; in Dyer avenue in the town of Cranston; and in Smith street in the town of North Providence	6,233 81 feet.
6-ілсн.	
In Bullfinch court, Dora, Eudora, Eaton, Forest, Lauriston, Poe, Social, Sorrento and Tell streets; Elmgrove and Pennington avenues; in Bailey and Cato streets, and Windsor road in the town of Cranston; in Cecil and Grover streets in the town of Johnston; and in Fruit Hill and Greenville avenues in the town of North Providence	4,671.24 feet.
Total	17,632.69 feet
or, 3.339 + miles.	

Water pipes have been removed during the quarter as follows:

8-inch.	
From Cranston street in the town of Cranston	303.04 feet
6-inch.	•
From Dyer avenue in the town of Cranston	15.65 feet
Total	318.69 feet
or .060 + miles.	
Statement of sizes and lengths of nine laid a	lmaa Alva aanu
Statement of sizes and lengths of pipe laid s	ince the com-
mencement of the work:	
mencement of the work: 42-inch	4,979.49 feet
	4,979.49 feet 10,207.57 feet
42-inch	
42-inch	10,207.57 feet
42-inch	10,207.57 feet 61,328.30 feet
42-inch	10,207.57 feet 61,328.30 feet 46,404.73 feet
42-inch	10,207.57 feet 61,328.30 feet 46,404.73 feet 9,626.59 feet
42-inch	10,207.57 feet 61,328.30 feet 46,404.73 feet 9,626.59 feet 37,429.20 feet
42-inch	10,207.57 feet 61,328.30 feet 46,404.73 feet 9,626.59 feet 37,429.20 feet 112,328.04 feet
42-inch	10,207.57 feet 61,328.30 feet 46,404.73 feet 9,626.59 feet 37,429.20 feet 112,328.04 feet 15,062.78 feet

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

24-inch 16-inch 12-inch	23,004.37 feet.
Total	29,517.59 feet.,
or, 5.59 + miles.	

Twenty-one fire hydrants were set during the quarter, one in each of the following locations:

Ashton street, north side, 71 feet east of Silver Spring street. Broadway, southeast corner of Howard street. Broadway, northeast corner of Barton street. Broadway, south side, 170 feet east of Harkness street. Broadway, south side, southwest corner of Marshall street.

Broadway, south side, southeast corner of Courtland street.

Broadway, south side, about 80 feet west of Knight street.

Eudora street, north side, 164 feet west of building line of Poe street.

Greenville avenue, North Providence, 260 feet north of gate on north line of Metcalf avenue.

Greenville avenue, North Providence, on south line of Packard avenue. Grover street, North Providence, north side, 280 feet west of River avenue.

Metcalf avenue, southeast corner of Ashton street.

Princess avenue, Cranston, east side, southeast corner of Puritan avenue.

River avenue, east side, 17 feet north of building line of Eaton street. River avenue, east side, 482½ feet north of building line of Eaton street.

Smith street, North Providence, south side, on west building line of East avenue.

Smith street, North Providence, south side, 5 feet west of Aliendale road.

Smith street, North Providence, south side, 55 feet east of Sampson avenue.

Smith street, North Providence, south side, 10 feet west of building line of Fruit Hill avenue.

Smith street, North Providence, south side, southeast corner of Olney lane.

Woodward road, east side, on south building line of Veazie street.

One fire hydrant was removed during the quarter, from Northup avenue, north side, on the east line of Silver Spring street.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and ninety-five — nineteen hundred and sixty-six flush, and one hundred and twenty-nine post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and forty water meters were set, of which number forty-nine were to replace other meters. The use of twenty-one meters was discontinued.

The following meters were in use at the close of the quarter:



	SIZE.											SIZE.					
KIND.	ş-in.	ą-in.	1-in.	1 <u>}</u> -in.	2-in.	3-in.	4-în.	6-in.	8-in.	Total.							
Ball & Fitts	1,755	361	87	9	4				*****	2,716							
Ball & Fitts, rotary			4	5		2	1			12							
Crown	9,801	1,235	365	165	50	32	28	1		11,677							
Émpire	1,514	186	78	52	14	1	1			1,846							
Fales, Jenks & Sons			1					*****	*****	1							
Gem	*****		.,		17	31	19	4		71							
Hersey	24				*****					24							
Nash	320									320							
Thomson	4,817	422	74	54	22	7	7	1		5,404							
Trident	103		1			ereter			ma.	104							
Venturi			444						1	1							
	18,334	2,204	610	285	107	73	56	6	1	21,676							

Four plumber's licenses were issued during the quarter.. The total number of licenses in force September 30, 1906, was one hundred and twenty-six.

Seven hundred permits to do plumbing were issued during the quarter.

One hundred and eighty applications for water were made during the quarter, making the total number twenty-seven thousand eight hundred and fifty-five.

The number of new service stops opened during the quarter was one hundred and eighty-one.

The total number of service stops opened to September 30, 1906, inclusive, was twenty-seven thousand one hundred and forty-nine. The number in actual use September 30, 1906, was twenty-five thousand and thirty-three.

The amount of bills approved on account from July 1, to September 30, 1906, including		
For maintenance,	•	<b>*103,086</b> 64
Classified as follows:		
PETTACONSET PUMPING STATIC	ox.	
Coal and wood	\$2,549	33
Firemen	916	
Sundries	722	83
Engineers	(23)	50
Superintendence	442	(0)
Care of grounds	256	64
Oil, waste and packing	153	50
Barn expenses	88	12
Labor on fuel	63	60
Allis-Chalmers high-duty engine	51	84
Real estate	19	70
Lights	19	33
Repairs on boilers	19	11
Cornish engine house	14	40
Worthington high-duty engine	1	60
Marene marries harmareas ata		

	107 107	
Allis-Chalmers high-duty engine	51 84	
Real estate	19 70	
Lights	19 33	
Repairs on boilers	19 11	
Cornish engine house	14 40	
Worthington high-duty engine	1 60	
Horses, wagons, harnesses, etc	1 25	
-		<b>8</b> 5.149 s
SAND FILTRATION PLANT.		• • • • • • • • • • • • • • • • • • • •
Installation	85,222 45	
Later and supplies, pumping a control control.	2 mei 97	
Cleaning beds a survivous account and an account of the contraction of the contract of the con	1,123 (33)	
La's ratory - laber and supplies	4% 24	
Miscellaneous supplies:	.44 (0)	
Care of grounds	196 41	
-		12.471 %
So Kanosset Respevoir.		
Waster State	\$182.00	
Similaria	×. +4	
-		
H Es Puneing Stati N		
Enginesis	\$5000	
F. marrier	78.70	
Home protonization in the contraction of the contra	2.5	
	47.45	
	74 4I	
8 • 14 •	77. 🧇	
Negeria de Langue Regular de la Santa	14 15	
	• • •	

And the armodification

Amount brought forward			<b>\$20,051</b> .0
Hope Reservoir.			
Sundries	<b>\$</b> 9,602	64	
Watchman	204	75	
			9,807 3
. FRUIT HILL RESERVOIR.			
Sundries	\$353	15	
Watchman	182	00	
		_	535 1
METER DEPARTMENT.			
Water meters	\$2,688	62	
Setting and repairing meters	1,425	83	
-		_	4,114 4
PIPE LINE AND SERVICE STO	P8.		
Repairs	<b>\$</b> 2,917	21	
Salaries of assistant engineers	1,810	00	
Superintendence — salaries	874	25	
Inspection of pipe line and services	795	<b>38</b>	
<b>T</b>			6,396 8
PIPE YARD.			
	<b>8</b> 96 949	Λ2	
Cast iron water pipe	\$28,242 15.975		
Cast iron water pipe Leading main from Sockanosset to city—to lay	15,975	01	
Cast iron water pipe Leading main from Sockanosset to city—to lay Laying water pipe	15,975 7,287	01 10	
Cast iron water pipe  Leading main from Sockanosset to city—to lay  Laying water pipe  Special castings	15,975 7,287 3,346	01 10 07	
Cast iron water pipe  Leading main from Sockanosset to city—to lay  Laying water pipe  Special castings  Laying service pipe	15,975 7,287 3,346 1,663	01 10 07 47	
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin.	15,975 7,287 3,346	01 10 07 47 80	
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings  Laying service pipe.  Pig lead and tin  Labor on and carting pipe.  Service pipe.	15,975 7,287 3,346 1,663 1,035	01 10 07 47 80 02	
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin  Labor on and carting pipe.	15,975 7,287 3,346 1,663 1,035 717	01 10 07 47 80 02 22	
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Laying service pipe.  Pig lead and tin.  Labor on and carting pipe.  Service pipe.  Fools.	15,975 7,287 3,346 1,663 1,035 717 458	01 10 07 47 80 02 22 32	
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin.  Labor on and carting pipe.  Service pipe.  Fools.  Stop valves.	15,975 7,287 3,346 1,663 1,035 717 458 251	01 10 07 47 80 02 22 32 33	
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Laying service pipe.  Pig lead and tin  Labor on and carting pipe.  Gervice pipe.  Fools.  Stop valves.  Pipe yard, office expenses.	15,975 7,287 3,346 1,663 1,035 717 458 251 44	01 10 07 47 80 02 22 32 33	59,038 6
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin.  Labor on and carting pipe.  Service pipe.  Fools.  Stop valves.  Pipe yard, office expenses.  Miscellaneous.	15,975 7,287 3,346 1,663 1,035 717 458 251 44 18	01 10 07 47 80 02 22 32 33 26	59,038 6
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin.  Labor on and carting pipe.  Service pipe.  Fools.  Stop valves.  Pipe yard, office expenses.  Miscellaneous.	15,975 7,287 3,346 1,663 1,035 717 458 251 44 18	01 10 07 47 80 02 22 32 33 26	<b>59,</b> 038 60
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin.  Labor on and carting pipe.  Service pipe.  Fools.  Stop valves.  Pipe yard, office expenses.  Miscellaneous.  Clerks' and inspectors' salaries.  Prevention of defilement of the Pawtuxet.	15,975 7,287 3,346 1,663 1,035 717 458 251 44 18	01 10 07 47 80 02 22 32 33 26 —	59,038 60
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin.  Labor on and carting pipe.  Service pipe.  Tools.  Stop valves.  Pipe yard, office expenses.  Miscellaneous.  Clerks' and inspectors' salaries.  Prevention of defilement of the Pawtuxet.  Barn expenses.	15,975 7,287 3,346 1,663 1,035 717 458 251 44 18 \$1,752 549 476	01 10 07 47 80 02 22 32 33 26 —	59,038 60
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin.  Labor on and carting pipe.  Service pipe.  Tools.  Stop valves.  Pipe yard, office expenses.  Miscellaneous.  Clerks' and inspectors' salaries.  Prevention of defilement of the Pawtuxet.  Barn expenses.  Car fares.	15,975 7,287 3,346 1,663 1,035 717 458 251 44 18	01 10 07 47 80 02 22 32 33 28 —	59,038 6
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin.  Labor on and carting pipe.  Service pipe.  Fools.  Stop valves.  Pipe yard, office expenses.  Miscellaneous.  Clerks' and inspectors' salaries.  Prevention of defilement of the Pawtuxet.  Barn expenses.  Car fares.	15,975 7,287 3,346 1,663 1,035 717 458 251 44 18 \$1,752 549 476 180 125	01 10 07 47 80 02 22 33 32 33 26 40 99 50 00 68	59,038 64
Cast iron water pipe.  Leading main from Sockanosset to city—to lay  Laying water pipe.  Special castings.  Laying service pipe.  Pig lead and tin.  Labor on and carting pipe.  Service pipe.  Tools.  Stop valves.  Pipe yard, office expenses.	15,975 7,287 3,346 1,663 1,035 717 458 251 44 18	01 10 07 47 80 02 22 33 33 28 40 99 50 00 68 00	59,038 60

\$103,086 64

The state of the s	•	
The total expenditures to September 8	-	0 244 000 00
1906, inclusive, was	. \$1	0,711,008 86
The net expenditure for maintenance from July tember 30, 1906,, inclusive, was	er 30, 19	<b>8</b> 96,622 40
The value of the water works system	l	
January 1, 1906, as estimated by the		
city engineer, was as follows:	,	
city engineer, was as follows.		
Pettaconset pumping station.  Hope pumping station.  Sockanosset, Hope and Fruit Hill Reservoirs.  Main lines and distribution pipes.  Real estate in Pawtuxet and Lincoln.  Tools and supplies.	120,778 <b>6</b> 91,498	78 68 94 00
Bills deposited with the city treasurer	for	
collection from July 1 to September		
1906, inclusive, amounted to		<b>\$</b> 89,261 51
As follows:		
Water	<b>\$</b> 81,571	28
Water meters	4,275	
Setting and repairing meters	1,928	
Labor and material, laying services, etc	1,128	
Repairs on pipe line	196 106	
Penalties	42	
Permanently closing service stops	10	
Empty oil barrels	3	20
•	\$89,261	51

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$122,662 23

As follows:

0 00
,984 2

\$203,291 2

	100	
Amount brought forward	-34	864,9
SAND FILTRATION PLANT.	. 53	
to an Hardan		
Installation	\$76,717	
Cleaning beds	7,307	
Labor and supplies, pumping	6,621	
Laboratory, labor and supplies	2,506	3
Miscellaneous supplies	2,113	
Washing sand	408	
Care of grounds	239	95,912 95
SOCKANOSSET RESERVOIR.		-
SOURANOSEI WESEFUIR.		. 75
Sundries	\$2,735 9	90
Watchman	728 (	00
		3,663 149
Hope Pumping Station.		
Engineers	\$1,592	10
Firemen	1,562	
Coal and wood	1,375	
Sundries	360	
Holly pumping engine	263	
Lights	219 (	
Oil, waste and packing	33 4	
Repairs on boilers	27 3	
Nagle pumping engine	14	10
-		_ 5, <b>448</b> <sup>2</sup>
Hope Reservoir.		
Sundries	<b>\$</b> 12, <b>0</b> 63 :	21
Watchman	819 (	'n
-		- 12,882 <sup>3</sup>
FRUIT HILL RESERVOIR		
Sundries	<b>\$1,580</b> 8	33
Watchman	728 (	00 2, <b>306 ∉</b>
METER DEPARTMENT.		
Water meters	<b>\$</b> 12,624 8	
Setting and repairing meters	5,666 (	01
		10 000 8

Amount carried forward.....

Amount brought forward		<b>\$</b> 203,291 2
PIPE LINE AND SERVICE STO	OPS.	
Repairs	<b>\$15,038 99</b>	
Inspection of pipe line and services	4,164 26	
Superintendence-salaries	3,497 00	
Salaries of assistant engineers	2,821 13	
•		25,521
PIPE YARD.		
Cast iron water pipe	\$166,573 34	
Leading main from Sockanosset to city—to lay	38,454 53	
Laying water pipe	24,633 24	
Special castings	14,414 47	
Stop valves	8,960 67	
Laying service pipe	6,012 00	
Fire hydrants, boxes and covers	4,456 38	
Service pipe	3,723 03	
Labor on and carting pipe	2,883 64	
Pig lead and tin	2,304 73	
Taps and stops	1,936 99	
Tools	1,265 57	
Laying 42-inch force main from Pettaconset to		
Sockanosset	521 <b>7</b> 5	
Pipe yard, office expenses	155 36	
Repairs on pipe yard buildings	27 98	
Patterns for special castings	14 00	
		276,337
MISCELLANEOUS.		
Town of Cranston, tax	<b>\$8,310</b> 88	
Clerks' and inspectors' salaries	6,985 60	
Barn expenses	2,618 21	
Prevention of defilement of the Pawtuxet	2,201 46	
Car fares	1,435 90	
Horses, wagons, harnesses, etc	1,367 15	
Telephone lines	1,275 96	
Town of North Providence, tax	400 00	
Public drinking fountains and troughs	103 58	
Real estate at Pawtuxet	67 50	
Sundries	54 32	
Real estate in Lincoln	30 00	24,849
		\$530,000

**\$**530,000 00

#### SEWERS.

Four drain layer's licenses were issued during the quarter. The total number of licenses in force September 80, 1906, was one hundred and thirty-nine.

During the quarter, two hundred and seventy-nine permits were issued to drain layers — one hundred and forty-five for new work and one hundred and thirty-four for extensions and repairs of drains.

July 20th, ordered of James C. Goff Company, one cargo of Sanford bricks at \$10.00 per M., delivered in the city yard.

August 8d, the proposal of John R. White and Son to furnish the New River coal required at Ernest street pumping station for the year ending July 1, 1907, at \$3.45 per net ton delivered, was accepted.

September 11th, contracts for the construction of sewers were awarded to the following parties and subsequently executed, viz.:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials.]

### TO FREDERICK E. SHAW.

No. of resolution. Date of approval.

358.	Aug.	3,	1906,	Mount Pleasant avenue from Atwells to Dover		
<b>3</b> 59.	46	"	66	strect,	<b>\$1,41</b> 0	40
360.	66	"	"	street,	848	20
				Parade to Dexter, .	279	80

Date of completion.

### TO FRANK A. GAMMINO.

Aug. 3, 1906, McKinley street from 357. Elmwood avenue to Alger, **\$1,023 90** 

September 28th, the proposal of L. F. Pease Company, to furnish and deliver in this city 15,000 yards of  $10\frac{1}{2}$ -ounce cotton duck 40 inches wide for the sum of 14½ cents per yard, was accepted.

During the quarter, the construction of the following sewers was completed, namely:

No. of Resolution. Date of approval. 409. Dec. 8, 1905, Dora street, from about 100 feet east of Webster avenue to Priscilla, and from about 100 feet east of Priscilla avenue to Whitehall street; also in Wallace street, from Priscilla avenue to Whitehall street. . . . July 12, 1906.

- Dec. 8, 1905, Taber avenue, from Lloyd . July 2, 1906. to President.
- 415. Eudora street, from near Eddy to Poe, and in Poe
  - street, from near Rhodes . Aug. 9, 1906. to Public.

ion avenue to Waverly. Sept. 24, 1906.

- 417. Thayer street. from
  - Barnes to Angell (storm sewer) .

412.

- . July 17, 1906. Plenty street, from the May 8, 1906, **208**.
  - summit to Elmwood avenue; in Linden street, from West Clifford about 80 feet northerly and in Sorrento street from Un-

No. of resolution. Date of approval.

Date of completion.

211. May 8, 1906, Sackett street, from Elm-

wood avenue to Melrose street. . . Aug. 11, 1906.

212. " " Kelly street, from the angle in Kelly street to

Bancroft, and in Longmont street, from Salina
to Admiral. . . Aug. 4, 1906

Work upon the following sewers was in progress at the close of the quarter, namely:

No. of resolution. Date of approval.

Feb. 7, 1905, Pleasant Valley Division, Section 31.
 May 8, 1906, Veazie street, from its summit northwesterly to the sewer in Douglas avenue

near Stansbury street and from its summit southeasterly in Veazie street and Douglas avenue to present end of sewer

about 270 feet west of Hawkins street.

357. Aug. 3, 1906, McKinley street from Elmwood avenue to Alger.

360. " " Waterloo street, from near Parade to Dexter.

373. Sept. 11, 1906, Exchange place, from near present end of sewer to about 200 feet northerly, in front of the new post office building.

Work upon the following sewers, completing the work ordered by the city council, had not commenced September 30, 1906, namely:

No. of resolution. Date of approval.

288. Sept. 12, 1905, West River street, j and from West I easterly through rig feet to end of Sect proved sewerage sys 210. May 8, 1906, Plainfield street, from nue to Laurel Hill. 358. Aug. 3, 1906, Mount Pleasant au to Dover street. 359. " " Progress avenue,	River 8 th of u ion 22 tem. om near	treet at Elk vay about 530 c.of the im- c Lowell ave-
Whitehall street.		
The amount of bills approved on acco	unt of	sewers from
July 1 to September 30, 1906, inclusive,	was:	
For construction,		<b>\$</b> 36,551 33
Charged as follows:		
Contract reservations	\$10,381	00
Material	4,603	25
Additional catch-basins	540	
Testing cement	301	
Sundries	163	
Tools  Sewer in Dixon street, from Stamford avenue to		75
Elmwood	7	50
Sewer in Dora and Wallace streets	415	
Sewer in Eudora and Poe streets	926	80
Sewer in Exchange place, in front of new post of-	•	
fice building	49	17
Sewer in Handy street, from Amhurst to Amster-	_	
dam		25
Sewer in Kelly and Longmont streets  Sewer in Massie avenue, Baxter street, and in	903	170
right of way	15	00
Sewer in McKinley street, from Elmwood avenue		
to Alger	332	53
Sewer in Plenty, Linden and Sorrento streets	1,002	18
Sewer in Sackett street, from Elmwood avenue to		
Melrose street	855	
Sewer in Taber avenue, from Lloyd to President Sewer in Thayer street, from Barnes to Angell	9	02
(storm sewer)	3,070	28
Amount carried forward		

Amount brought forward  Sewer in Veazie street and Douglas avenue	* 000	200	
Sewer in Waterloo street, from near Parade to	1,090	17	
Dexter	306	13	
Sewer in Waverly street, from Cranston to Union avenue	10	00	
Sewer in Pleasant Valley Division, Section 31	11,557		
	\$36,551	33	
For maintenance,		8	31,942
Classified as follows:			
Cleaning basins and sewers	87,821	39	
Repairing basins and sewers	4,924	00	
Tools	1,136	60	
Sundries	1,056		
Inspection of connections	693		
Cleaning and repairing old drains	563		
Salary, superintendent	442		
Barn expenses	272	1000	
Horses, wagons, harnesses, etc	145		
Cleaning private connections	-	50	
Telephone lines		93	
Filling cisterns, etc		00	
Office expenses	9	60	
ERNEST STREET STATION.			
Coal and wood	1,287	00	
Engineers	869		
Cleaning screens	627		
Cleaning and repairing pumps	535		
Firemen	416		
Care of grounds.	119		
Supplies		43	
Repairs on engines		89	
Lights		06	
Care of buildings		11	
SEWAGE PRECIPITATION TANK			
Chemicals	5,958		
Labor in sludge disposal	2,322		
Labor on sewage precipitation	1,557		
Electrical power.	527		
Miscellaneous supplies.	187		
Repairs on tanks		00	
Fuel		76	
LightsRepairs on machinery		25 37	
•	\$31,942	31	
The net expenditure for construction of sewers	o Septe	m	
ber 30, 1906, inclusive, way			
		• • •	<b>\$7,890,898</b>
ber 30, 1906, inclusive, was			

Bills deposited with the city treasu	
for collection from July 1 to September	30,
1906, inclusive, amounted to	. <b>\$2,</b> 340 12
As follows:	
Miscellaneous work	<b>*724</b> 42
Cleaning private connections	58 00
Old manhole frames and covers	27 96
Pumping out cellar	· 10 00
Sewer material Testing cement	1,518,55 1 20
•	
	<b>\$2,340</b> 12
During the quarter, coupons from b	ills
collected have been returned by the c	ity
treasurer and receipted for to the amou	•
of	. <b>#1,</b> 994 61
	. ф1,894 01
As follows:	
Miscellaneous work	<b>\$</b> 369 71
Cleaning private connections	67 50
Old manhole frames and covers	27 95
Pumping out cellar	10 00
Testing cement	1,518 25 1 20
2 company	
	<b>\$1,994</b> 61
The amount of bills approved on acc	ount of sewers for
the fiscal year ending September 30, 190 follows:	
For construction,	. \$169,940 06
Charged as follows:	
Material	<b>\$</b> 22,043 32
Contract reservations	12,284 00
Additional catch-basins	1,252 69
Testing cement	1,195 47
Sundries,	905 52
ToolsSewer in Andem street, from Canton to Bergen	8 02 764 67
Sewer in Blackstone boulevard, west side, from	104 01
north line of Glen avenue southerly to present	•
end of sewer	734 08
Amount carried forward	<b>\$</b> 39,187 77
Amount carried forward	<b>\$</b> 39,187 77

No. of 1	resolution. Date of a	pproval. Date of completion.
211.	May 8, 1906,	Sackett street, from Elm-
		wood avenue to Melrose
		street Aug. 11, 1906.

212. " " Kelly street, from the angle in Kelly street to

Bancroft, and in Long
mont street, from Salina

to Admiral. . . Aug. 4, 1906

Work upon the following sewers was in progress at the close of the quarter, namely:

No, of resolution. Date of approval.

- 68. Feb. 7, 1905, Pleasant Valley Division, Section 31.
  209. May 8, 1906, Veazie street, from its summit northwesterly to the sewer in Douglas avenue near Stansbury street and from its sum
  - mit southeasterly in Veazie street and Douglas avenue to present end of sewa about 270 feet west of Hawkins street.
- 357. Aug. 3, 1906. McKinley street from Elmwood avenue to Alger.
- 360. " " Waterloo street, from near Parade to Dexter.
- 373. Sept. 11, 1906. Exchange place, from near present end of sewer to about 200 feet northerly, in front of the new post office building.

Work upon the following sewers, completing the work ordered by the city council, had not commenced September 30, 1906, namely:

No. of resolution. Date of approval.	
288. Sept. 12, 1905, West River street	, from Cross to Burke,
and from West	River street at Elk
•	
	right of way about 530
feet to end of Se	ection 22 .of the im-
proved sewerage s	=
•	
210. May 8, 1906, Plainfield street,	from near Lowell ave-
nue to Laurel Hi	u.
358. Aug. 3, 1906, Mount Pleasant	unanna from Atanalla
	noenue, jrom muens
to Dover street.	
359. " " " Progress avenue	, from Webster to
Whitehall street.	
w natenati street.	
The amount of bills approved on ac	count of sewers from
July 1 to September 30, 1906, inclusive	e, was:
T3	4.00 551 00
For construction,	. \$36,551 33
Oleman de fallemen	
Charged as follows:	
Contract reservations	\$10,381 00
Material	
Additional catch-basins	•
Testing cement	301 25
Sundries	163 72
Tools	
Sewer in Dixon street, from Stamford avenue	
Elmwood	
Sewer in Dora and Wallace streets	
Sewer in Eudora and Poe streets	
Sewer in Exchange place, in front of new post of	
fice building	
Sewer in Handy street, from Amhurst to Amste	
Sewer in Kelly and Longmont streets	
Sewer in Massie avenue, Baxter street, and	
right of way	
Sewer in McKinley street, from Elmwood aven	
to Alger	
Sewer in Plenty, Linden and Sorrento streets	
Sewer in Sackett street, from Elmwood avenue	
Melrose street	855 02
Sewer in Taber avenue, from Lloyd to President	9 02
Sewer in Thayer street, from Barnes to Ange	11
(storm sewer)	3,070 28
Amount carried forward	\$23,583 01
ARABOM SECTION AND THE SECTION	

Amount brought forward	\$39,187	π	
Sewer in Dixon street, from Stamford avenue to			
Elmwood	534	58	
Sewer in Dora and Wallace streets	1,468	14	
Sewer in Eudora and Poe streets	926	•	
Sewer in Exchange place, in front of new post		•	
office building	49	17	
Sewer in Grotto avenue, from Penrose to Irving.	1,215		
Sewer in Handy street, from Amherst to Amster-	1,410	•	
dam	764	M	
	•		
Sewer in Kelly and Longmont streets	1,005	80	
Sewer in Massie avenue, Baxter street, and in		~~	
right of way	937	200	
Sewer in McKinley street, from Elmwood avenue			
to Alger	332	53	
Sewer in Narragansett avenue, and in right of way,			
from city line to main trunk sewer	7,472	:55	
Sewer in Northup avenue, from Silver Spring			
street to the westerly line of Edwards street	97	13	
Sewer in Plenty, Linden and Sorrento streets	1,002	18	
Sewer in right of way, from Valley street to the			
Woonasquatucket river	213	50	
Sewer in Sackett street, from Elmwood avenue to			
Melrose street	855	02	
Sewer in Taber avenue, from Lloyd to President	613	60	
Sewer in Thayer street, from Barnes to Angell,			
(storm sewer)	4,836	71	
Sewer in Unit street, from Chalkstone avenue to	•		
Maynard street	7,187	00	
Sewer in Veazie street and Douglas avenue	1,090		
Sewer in Waverly street, from Cranston to Union	2,	••	
avenue	979	-34	
Sewer in Waterloo street, from near Parade to	<b>011</b>		
Dexter	306	12	
Sewer in Pleasant Valley Division, Section 31	98,865	_	
Sewel in Fleasant valley Division, Section of		<del></del>	
	\$169,940	06	
For maintenance,		\$119,966	10
101 maniemone,	•	*110,000	1.7
Classified as follows:			
Cleaning basins and sewers	\$26,448	47	
Repairing basins and sewers	12,037		
Tools.	2,819		
Cleaning and repairing old drains	2,740		
Inspection of connections	2,689		
•	-		
Sundries	1.92%		
Salary, superintendent	1,768		
Barn expenses	1,556	=	
Horses, wagons, harnesses, etc	1.031	_	
Use of water	900	(A)	
Amount carried forward	\$53,980	06	

## Remove Obstructions, Grade and Put in Good Condition.

Date of order.

May 18, 1905, Hope street, from Rochambeau avenue to the city line.

Jan. 18, 1906, Crawford street, from South Water to South Main, and South Main street, from Crawford to Planet.

The following work was in progress September 30, 1906:

SIDEWALKS CURBED AND GUTTERS PAVED.

Dute of order.

May 17, 1906, Sackett street, from Elmwood avenue to Melrose street.

June 21, 1906, Eudora street, from Eddy to Poe.

" " Poe street, from Rhodes to Public.

Aug. 2, 1906, Allens avenue, from Henderson street to Globe.

LAY OUT, EXTEND, WIDEN, AND IMPROVE.

Date of order.

Aug. 3, 1906, Allens avenue and Eddy street.

The following work, ordered by the board of aldermen and city council, had not commenced September 30, 1906, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

May 17, 1906, Sorrento street, from Union avenue to Waverly street.

Sept. 20, 1906, Kelly street, from the angle in said street to Bancroft.

" " Elton street, from Wayland avenue to Humboldt.

Date of order.

#### REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION.

June	21,	1906,	River Smith		from	<b>E</b> aton	street to
	uly 1	to Sept		nt of hi 30, 1909			
Regular Special	approp: appropr	riation iation	• • • • • • • • • • • • • • • • • • • •	······································	<b>8</b> 9	6,924 65 1,087 41	\$106,012 %
Clas	sified	as follov	vs:				
					-	3,859 78	
						0,116 75	
				r		1,463 66	
				• • • • • • • • • • • • • • • • • • • •		0,419 38	
				•••••		3,599 11	
				••••••		2,300 11	
	-			• • • • • • • • • • • •		1,783 52	
	•			• • • • • • • • • • • •		1,706 22	
	•	-		• • • • • • • • • • • • • • • • • • • •		1,552 69	
				•••••		1,312 13	
				•••••		1,155 55	
						819 05	
		-		28		607-64	
Labor on	materi	al			• • • • •	598-20	
				• • • • • • • • • • • • • • • • • • • •		442 (0)	
Building	drivew	aya, etc	· · · · · · · · · · ·			286 (3)	
Watchma	an at ci	ty yard,		• • • • • • • • • • •	• • • • •	156 00	
Fencing	streets	- materia	l and lab	or.,		62 55	
Car fares	<b>s</b>					15 00	
Office ex	penses,	city yard.				10/36	
Telephor	ie lines					5 60	

#### NEW WORK - BUILDING AND REBUILD-ING STREETS, ETC.

Repairs on building, highway yard.....

SIDEWALKS CURBED AND GUTTERS PAVED. Baster street, from Massie avenue to its southerly

1 25

82,26 :4

termination  Dean street, from Cedar to West Exchange		
Amounts carried forward	<b>\$700 5</b> 0	\$82,283 34

Amounto haquaht (amount	<b>67</b> 00 =	h
Amounts brought forward	\$700 50	0 <b>\$</b> 82,283 24
Dora street, from Webster avenue to Whitehall street	2,556 3	•
Ellery street, from Wendell to Union avenue	2,500 S	
Eudora street, from Eddy to Poe	587 9	
Handy street, from Amsterdam to Amherst	231 4	
Longmont street, from Admiral to Salina	996 7	1
Massie avenue, from Broad street to Baxter	1,020 6	6
Poe street, from Rhodes to Public	78 7	5
street	829 7	
Taber avenue, from President to Lloyd Unit street, from Chalkstone avenue to Maynard	1,379 2	
street	158 20	
street	1,071 3	
Street	631 51 22 10	_
What Cheer avenue, from Laurel Hill to Pocasset		- 10,438 1 <b>0</b>
REMOVE OBSTRUCTIONS, GRADE AND PUT IN	Good Cox	IDITION.
Hope street, from Rochambeau avenue to city line	\$4,203 3	
Crawford street, from South Water to South Main, and South Main street, from Crawford to Planet	10,897 7	
and South Main street, from Clawford to Tianet	10,081 10	15,101 04
LAY OUT, EXTEND, WIDEN AND IM	PROVK.	
Allens avenue and Eddy street		189 68
•		\$108,012 06
Bills deposited with the city treasur	er	
for collection from July 1 to Septemb		
30, 1996, inclusive, amounted to		<b>*</b> 3,675 49
50, 10 m, inclusive, universe to	•	4,
As follows:		
Labor and materialBlacksmith and harness work for other depart-	<b>\$</b> 2,257 5	4
ments	620 68	3
Boarding horses for other departments	254 03	
Building driveways, etc	250 25	
Street sweepings	198 00 73 00	
	4.5 (R	,
Manure from barn		)
Manure from barn Empty barrels	22 00 \$3,675 49	

•		
During the quarter, coupons from b	ills	
collected have been returned by the	eitv	
treasurer and receipted for to the amo	•	
	ши	
of	•	<b>\$8,985 36</b>
As follows:		
Labor and material	<b>6</b> 4 692 17	
Blacksmith and harness work for other depart-	\$2,683 47	
ments	599 13	
Boarding horses for other departments	254 02	
Building driveways, etc	189 59	
Street sweepings		
Manure from barn		
Empty barrels	15 40	#2 not 20
		\$3,985 36
Bills approved on account of highw	avs	
for the fiscal year ending September 3	•	
	ω,	
1906, inclusive, amounted to:		
Regular appropriation	<b>6361 605 07</b>	
Special appropriation		
Special appropriation		\$379,751 98
Classified as follows:		
Cleaning streets	<b>\$</b> 73,33 <b>4 44</b>	
Crushed stone, material and labor	64,427 13	
Repairs on unpaved streets	61,808 79	
Stone, paving and crosswalk	34,101 74	
Repairs on paved streets	20,468 76 10,529 89	
Barn expenses	9,571 80	
Tools, implements, etc	6,676 15	
Steam rollers, repairs and supplies	4,474 71	
Repairs on stone crushers,	4,093 80	
Watering streets	4,027 97	
Labor on material	3,732 42	
Removing snow and ice	3,500 71	
Horses, wagons, harnesses, etc	2,303 60	
Sundries	2,116 75	
Superintendent's salary	1,768 00	
Building driveways, etc	905 00	
Fencing streets, material and labor	751 39	
Watchman at city yard	624 (0)	
Office expenses, city yard	225-36 95-00	
Repairs on buildings, highway yard	50 13	
Telephone lines	22 40	
		\$309,609 94
Amount carried forward		<b>8</b> 309,609 94

NEW WORK—BUILDING AND REBUILD-

ing Streets, etc.			
SIDEWALKS CURBED AND GUTTERS PA	VED.	•	
Andem street, from Canton to Bergen	<b>\$</b> 1,484	48	
termination	127	98	
Dean street, from Cedar to West Exchange	572	52	
Dizon street, from Elmwood avenue to Stamford	922	63	
Dora street, from Webster avenue to Whitehall			
street	2,556	35	
Ellery street, from Wendell to Union avenue	1,927	10	
Eudora street, from Eddy to Poe	587		
Everett avenue, from Arlington to Elmgrove	100		
drotto avenue, from Penrose to Irving	2,088		
Handy street, from Amsterdam to Amherst	959		
Longmont street, from Admiral to Salina	996		
Massie avenue, from Broad street to Baxter	1,020		
Narragansett avenue, from the city line northerly	2,020	(10)	
to a point about 120 feet north of Ardoene			
street	5,927	71	
Poe street, from Rhodes to Public	78		
Ralph street, from Eastwood avenue to Laban street	501		
Sackett street, from Elmwood avenue to Melrose	****	00	
street	829	77	
Spencer street, from Almy to Harkness			
Summit avenue, from Fourth to Seventh	791		
Taber avenue, from President to Lloyd	3,407		
Unit street, from Chalkstone avenue to Maynard	1,379	2.0	
	4	00	
street	4,516	90	
Wallace street, from Priscilla avenue to Whitehall	1 040	04	
street	1,342	96	
Waverly street, from Union avenue to Cranston	0 =0=	•	
street	2,527		
What Cheer avenue, from Laurel Hill to Pocasset	3,178		25 21
D			12 121
PAVE WITH GRANITE BLOCKS			
Sabin street, from West Exchange to Aborn		5,0	07 91
REMOVE OBSTRUCTIONS, GRADE AND PUT IN (	Pood Co	INDITION.	
Admiral street, from Douglas avenue to Hillwood			
street	\$4,190	36	
Hope street, from Rochambeau avenue to city line	5,061	65	
Crawford street, from South Water to South Main,			
and South Main street, from Crawford to			
Planet	17,867	18	
	'		19 19
LAY OUT, EXTEND, WIDEN, AND IN	fPROVK.		
Allens avenue and Eddy street		1	89 68
		\$379,7	K1 09
-		3.574.7	DI 93

#### SIDEWALKS AND CURBING.

Bills approved on account of sidewal and curbing from July 1, to September 3		
1906, inclusive, amounted to,	•	<b>\$</b> 5,768 42
Charged as follows:		
Granite curbing	\$4,679 79 1,088 60	
•	\$5,768 45	- 2
Bills deposited with the city treasurer f collection from July 1 to September 3 1906, inclusive, amounted to		<b>\$306 06</b>
As follows:		
Granite curbing	\$231 12 74 94	="
	\$306 00	;
During the quarter, coupons from bit collected have been returned by the citreasurer and receipted for to the amount	ty <sup>.</sup>	<b>*</b> 680 92
As follows:		
Curbing bills	\$351 74	ļ
Granite curbing	204 2- 74 94	-
Concreting sidewalks	(4 )	• •
	<b>\$630</b> 9	2

Bills approved on account of sidewalks and curbing for the fiscal year ending September 30, 1906, inclusive, amounted to . \$25,202 61

Charged as follows:			
Granite curbing	\$18,959	31	
Concreting sidewalks	4,959		
Repairing sidewalks and gutters	1,283		
	\$25,202	61	
CITY ENGINEER.			
Bills approved on account of the ci	•		
engineer's department from July 1 to Se	ep-		
tember 30, 1906, inclusive, amounted to		<b>*10,24</b> 6	29
Charged as follows:			
Salary — city engineer	\$1,125	00	
Salaries of assistants	7,715		
Salaries of clerks	828	75	
Supplies, drawing material, etc	324	70	
Car fares	202		
Telephone lines	25		
Instrument and repairs	17		
Sundries	-	05 70	
· ·		<del></del>	
	\$10,246	29	
Bills deposited with the city treasur	rer		
for collection (for old blue printing frame			
,	, .		
from July 1, to September 30, 1906, inc.	ıu-		
sive, amounted to	•	<b>*10</b>	00
During the quarter, coupons from bi	lls		
collected (for old blue printing frame), ha	ve		
been returned by the city treasurer, a			
·	na		
receipted for to the amount of	•	<b>*1</b> 0	00
Bills approved for account of the city of	en-		
gineer's department, for the fiscal ye			
ending September 30, 1906, inclusive			
<u> </u>	ve,		
amounted to	•	<b>\$44,671</b>	43

#### Charged as follows:

•		
Salary—city engineer	84,800	•
Salaries of assistants	31,914	79
Salaries of clerks	3,220	00
Supplies, drawing material, etc	958	67
Car fares	806	15
Instruments and repairs	135	88
Telephone lines	109	80
Sundries	11	20
Carriage hire	9	60
Meteorological instruments and repairs	8	25

\$44,671 43

#### BRIDGES.

July 27th, the proposal of the Rhode Island Concrete Company to lay an asphalt pavement on the Charles street bridge at \$1.95 per square yard for new work and \$1.00 per square yard for top dressing, was accepted.

Bills approved on account of bridges from July 1, to September 30, 1906, inclusive, amounted to \$7,045 56

#### Charged as follows:

Acorn street bridge	<b>\$</b> 3 (	00
Atwells avenue bridge	9 :	5()
Barn expenses	67 7	71
Car fares	25 0	00
Charles street railroad bridge	31 1	18
Crawford street bridge	3 6	38
Delaine street bridge	9 .	50
Eagle street bridge	1 2	20
Gaspee street bridge	34 5	50
Horses, wagons, harnesses, etc	50 6	38
Lumber, hardware, etc	407 7	ľO
Point street bridge	549 1	2
Promenade street bridge	15 0	M
Red bridge	153 0	)1
Rent of keeper's house-Washington bridge	36 0	Ю
Salaries—Point street bridge	1,008 2	5
Amount carried forward	\$2,405 6	3

Amount brought forward	\$2,405	63		
Salaries—Red bridge	536	25		
Salaries—Washington bridge	515	90		
Smithfield avenue bridge	12	25		
Smithfield avenue bridge—to rebuild	2,957	84		
Sundries	127	21		
Telephone lines	2	68		
Tools	92	28		
Wanskuck bridge	50	20		
Washington bridge	160	08		•
Whelden street bridge	185	24		
	\$7,045	56		
Bills deposited with the city treasurer	for			
collection (for old lumber), from July 1,				
· · · · · · · · · · · · · · · · · · ·				
September 30, 1906, inclusive, amounted	to		₩4	00
During the quarter, coupons from b collected (for old lumber), have been				
turned by the city treasurer, and receip for to the amount of			<b>\$</b> 4	00
•	ted · for	<b>*</b> 20,	<b>\$</b> 4 596	
for to the amount of	ted · for	<b>*20,</b>	•	
for to the amount of	ted for 06,	<b>\$20,</b>	•	
for to the amount of	ted for 06,		•	
for to the amount of	ted for 06,	60 50	•	
for to the amount of	ted for 06,	60 50	•	
for to the amount of	ted for 06,	60 <b>5</b> 0 15	•	
for to the amount of	ted for 06,	60 50 15 35	•	
for to the amount of	for 06,	60 50 15 35 32	•	
for to the amount of	for 06,	60 50 15 35 32	•	
for to the amount of	for 06,	60 50 15 35 32 00 20	•	
for to the amount of	ted for 06, 39 390 2 1 50 1 31 58	60 50 15 35 32 00 20	•	
for to the amount of	for 06,	60 80 15 35 32 00 20 18 62	•	
for to the amount of	for 06,	60 50 15 35 32 00 20 18 62 50	•	
for to the amount of	for 06,	60 50 15 35 32 00 20 18 62 50 20	•	
for to the amount of	for 06,	60 50 15 35 32 00 20 18 62 50 20 25 85	•	

Amount carried forward...... \$1,677 84

Amount brought forward	\$1,677	<del></del>
Manton bridge	3	97
Manton avenue bridge	79	13
Merino bridge	374	
Mill street bridge	11	
Nash lane bridge	108	
Point street bridge	2,388	
Promenade street bridge	32	
Randall street bridge	38 (	
Red bridge Rent of keeper's house — Washington bridge,	1,175	
Salaries — Point street bridge	144	
Salaries — Red bridge	3,967   2,094	
Salaries — Washington bridge	2,0 <del>23</del> 2	
Smith street	15	
Smithfield avenue bridge	409	
Smithfield avenue bridge—to rebuild	2,984	
Sundries	643	
relephone lines	10 1	
rools	147	
Valley street bridge — north span	10 (	
Valley street bridge — south span	2	
Veazie street bridge	6 3	30
Wanskuck bridge	65 9	91
Washington bridge	1,093	72
Washington row bridge	20 3	35
West River street bridge	3 6	<b>3</b> 3
Weybosset bridge	143	16
Whelden street bridge	520 :	2 <del>4</del> —
****	<b>\$20,596</b> -	13
Bills approved for account of rebuildi	_	
abutments, piers, and superstructure, Poi		
street bridge, from July 1 to September 3	80,	
1906, inclusive, have been paid from t	he	
special appropriation for that work to t	ne	
amount of	•	<b>≉8,62</b> 9 ′
1.11		
Bills approved for account of rebuilding	~	
abutments, piers, and superstructure, Poi	nt	
street bridge, for the fiscal year ending Se		
•	1-	
ember 30, 1906, inclusive, amounted to		*48,757
TO 1 C 4 C 1 '11'		
Bills approved for account of building	~-	
the river walls between the Burnside a	nd	
Exchange bridges for the fiscal year endi	_	
September 30, 1906, inclusive, amounted	to	<b>¥1,</b> 369 (
•		-

#### PUBLIC LIGHTS.

Bills approved on account of the publights from July 1 to September 30, 190			
inclusive, amounted to	•	<b></b> \$69,682	68
Charged as follows:			
Arc lights Incandescent lights Welsbach lights Salaries Setting and removing gas posts	13,300 6,072 195	04 17	
	<b>\$</b> 69,682	68	
Bills deposited with the city treasur			
for collection (for removing gas posts), fro			
July 1 to September 30, 1906, inclusi-	ve,	<b>.</b> 5.0	0.4
amounted to	•	#9	06
During the quarter, coupons from bi collected (for removing gas posts), have be	en		
returned by the city treasurer and receipt	ed		
for to the amount of	•	<b>\$</b> 9	06
Bills approved on account of the pub	lic		
lights for the fiscal year ending Septemb	ber		
30, 1906, inclusive, amounted to	•	\$278,680	70
Charged as follows:			
Arc lights			
Welsbach lights	52,058 25,068		
Salaries	1,356		
Setting and removing gas posts		92	
Car fares Supplies for repairing posts and lanterns	15	00 35	
	\$278,680		
	ಪ್ರಕ್ಷಣ,080	417	

#### PUBLIC WORKS OFFICE.

CITY DOCUMENT.

Bills approved on account of the public works office from July 1, to September 30, 1906, inclusive, amounted to . . .

**\$5,038 48** 

#### Charged as follows:

Salaries of commissioner and secretary	\$1,850 00
Salaries of office assistants	2,961 66
Office supplies	206 87
Telephone lines	19 95
	\$5,038,48

Bills approved on account of the public works office for the fiscal year ending September 30, 1906, inclusive, amounted to

**\$20,933 55** 

#### Charged as follows:

Salaries of commissioner and secretary	\$7,445	00
Salaries of office assistants	12,667	98
Office supplies	740	77
Telephone lines	79	80
•	\$20,933	 55

#### ABOLISHING GRADE CROSSING AT GROVE STREET, ETC.

Bills approved for account of abolishing grade crossing at Grove street, etc., from July 1, to September 30, 1906, inclusive, have been paid from the special appropriation for that work, to the amount of .

\*4,802 55

#### Charged as follows:

Building approaches to Arthur avenue bridge Building retaining walls, etc., Barre street	<b>\$4</b> ,751 : 51 :	
<del>-</del>		_
	@4 900	KK

Bills approved for account of abolishing grade crossing at Grove street, etc., for the fiscal year ending September 30, 1906, inclusive, amounted to

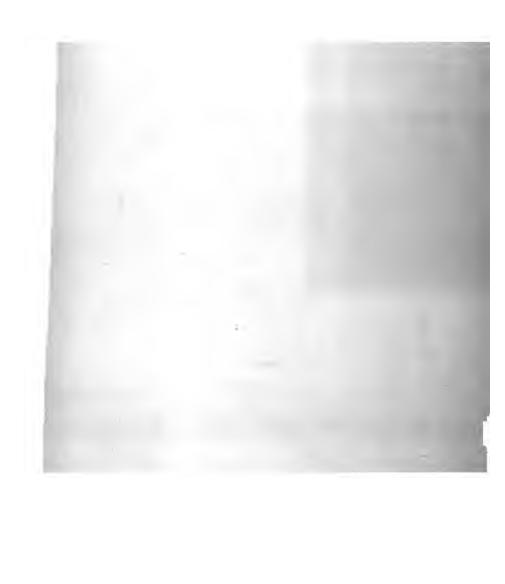
**\$18,670 25** 

#### Charged as follows:

Building approaches to Arthur avenue bridge ..... \$10,985 97 Building retaining walls, etc., Barre street...... 7,684 28 \$18,670 25

WALTER F. SLADE,

Commissioner.



OUT Y DOCKINEST

-NETY-SIXTH

WIARTERLY REPORT

OF 2116

# Department of Public Works

CITY OF PROVIDENCE, R. L.

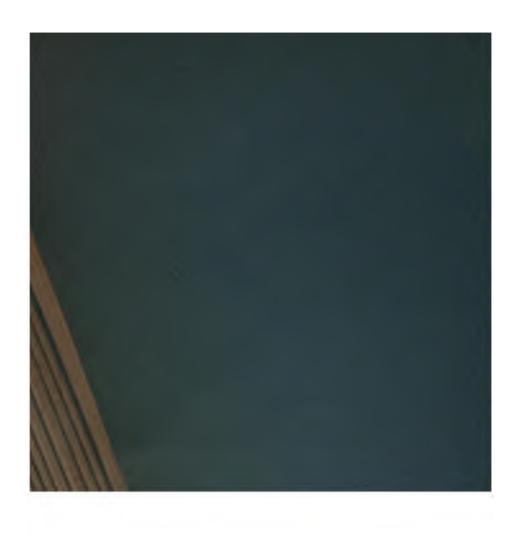
WARTER ENDING DECEMBER 31, 1900.



SHOW I PAINMAN CHE PRINTS

II Madinama Street

A CHANGE



### NINETY-SIXTH QUARTERLY REPC

## Department of Public

CITY OF PROVIDENCE, I

QUARTER ENDING DECEMBER



The Providence Press: SNOW & FARNHAM, CITY PRINTER 63 Washington Street,



#### REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, CITY HALL, PROVIDENCE, R. I., January 2, 1907.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the ninety-sixth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending December 31, 1906.

#### WATER WORKS.

October 3d, the proposal of the town of Cranston to build a macadam roadway on the line of the new 42-inch water main through the land of the Harris Farm and Mine Company, J. A. Budlong and Son Company and Patrick Clune, from Reservoir avenue to Park avenue, for the sum of \$2,500 per mile, was accepted.

November 27th, the proposal of the Builders Iron Foundry to furnish and deliver at Pettaconset two 20-inch Venturi meters complete with indicators and fittings, for \$864, was accepted.

December 18th, the proposal of John W. Lyon to furnish taps and stops for the ensuing year, was accepted and a contract subsequently executed. Amount \$1,555.70.

December 14th, the proposal of the Charles J. Jager Company to furnish and deliver at Pettaconset one type "S" twin-cylinder 10-H. P. Jager engine for the sum of \$615, was accepted.

December 15th, the proposal of Belcher and Loomis Hardware Company to furnish and deliver 3,600 feet of double braided weatherproof cable at 26 8-10 cents per foot, was accepted.

December 18th, the proposal of Warren Foundry and Machine Company to furnish and deliver in this city 377 tons of cast iron water pipe at \$35 per net ton, was accepted and a contract subsequently executed.

December 19th, the following proposals for furnishing and delivering fire hydrants and water gates, were accepted and contracts subsequently executed, namely:

The Ludlow Valve Manufacturing Company	10 post hydrants with gates at \$63	00 e <b>a</b> ch.
The Fairbanks Company	3 16-inch water gates at 77 6 12-inch water gates at 32	36 each. 70 each.
Coffin Valve Company	( 10 8-inch water gates at 17 ( 60 6-inch water gates at 11	

December 20th, the proposals of the following parties to furnish and deliver pig lead and lead pipe were accepted, viz:

```
Phillips Lead and Supply Company 1998 1998 2000 lbs. Balbach pig lead at 65 cents per lb Phillips I cad and Supply Company 1998 1998 2000 lbs. [-inch lead pipe at 71] cents per lb Phillips I cad and Supply Company 1998 1998 1998 1998 2000 lbs. [-inch lead pipe at 71] cents per lb Pho Company 1998 2000 lbs. [-inch lead pipe at 71] cents per lb Pho I H Pillinghast Supply Company 1996 ibs. [-inch lead pipe at 71] cents per lb Pho I H Pillinghast Supply Company 1998 2000 lbs. [-inch lead pipe at 71] cents per lb. Pho I H Pillinghast Supply Company 1998 2000 lbs. [-inch lead pipe at 72] cents per lb. Wilco I ton Company 1998 2-inch lead pipe at 72] cents per lb.
```

December 26th, the proposal of Fuller Iron Works to furnish the special castings required by the water department for 1907, was accepted and a contract executed. Amount \$3,450.06.

The average daily consumption of water during the last quarter was 14,547,776 gallons, and the average daily consumption for the year 1906 was 15,045,365 gallons.

Water pipes were laid during the quarter as follows:

42-inch.	
In Pocasset and Webster avenues; and in Cranston and	
Transit streets; Narragansett, Old Park and Reservoir	
avenues, and in right of way to Sockanosset reservoir	
in town of Cranston	20,651.21 feet.
36-inch.	20,001.21 1000
	4.07.4
To connect with new main in town of Cranston	1.25 feet.
30-inch.	
In Plainfield street	81.77 feet
24-inch.	
In Cranston street, in town of Cranston	8.32 feet.
16-inch.	
In Broadway and Knight streets and in Brayton avenue	5,227,82 feet.
	0,221.02 1000.
12-inch.	
In Knight street; and in right of way, Cranston street,	
Park and Reservoir avenues in the town of Cranston	1,014.60 feet.
8-inch.	
In Admiral, Byfield, Crawford, Killingly and Wallace	
streets and Pocasset avenue; in right of way, Cran-	
ston, Second and Transit streets; Arlington, Burnham,	
Dyer, Harris, Pontiac, Reservoir and Webster avenues	
in the town of Cranston	1,101.15 feet.
6-inch.	-,2-2110 27/000
In Broadway; Ceres, Cedar, Clarence, Dante, Dora,	
Forest, Fourth, Gay, Hamilton, Ledge, Pearl, Roose-	
velt, Somerset and Veto streets and Rodgers court:	
Elmgrove, Lenox, Progress, Pocasset and Sterling ave-	
nues; in right of way, Beckwith, Cedar, Cranston,	
Gordon, Hayes, Prospect, Potter and Second streets;	
Arlington, Blackamore, Burnham, Cutting, Harris,	
Orchard, Princess, Sumner, Terrace, Whipple and	
Webster avenues in the town of Cranston; and in	
Smith street, Fruit Hill and Olney avenues in the	
town of North Providence	5,850.54 feet,
Total	33,986.66 feet
or 6.427 + miles.	,
or other parties.	

9,626.59 feet.

Water pipes have been removed during the	e quarter s
follows:	-
12-исп.	
From Cranston street in the town of Cranston	46.70 feet,
8-INCH.	•
From Knight street, Northup and Pocasset avenues; and from Cranston and School streets in the town of Cranston	539.61 feet
6-inch.	
From Arsenal lane; Broadway and Wallace streets and Pocasset avenue; and from Cranston street, Arlington, Burnham, Harris and Webster avenues in the town of Cranston	4,511.90 feet.
Total	5,098.27 feet.
or, .965 + miles.	
Statement of sizes and lengths of pipe laid size mencement of the work:	nce the com-
42-inch	25,630.70 feet. 10,208.82 feet. 61,410.07 feet.

42,142.02 feet. 12-inch..... 113,295.94 feet. 10-inch..... 15,062.78 feet.

310,629.09 feet.

or, 362.313 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work:

4,297.46 feet. 16-inch .....::...::... 23,004.37 feet. 12-inch ..... 2,215.76 feet.

Total ..... 29,517.59 feet. or 5.59 + miles.

Twelve fire hydrants were set during the quarter, one in each of the following locations:

Broadway, south side, on west line of America street.

Broadway, south side, 101 feet east of Harris avenue.

Broadway, south side, 208 feet east of east line of Battey street.

Broadway, south side, 5 feet east of east line of Ringgold street.

Byfield street, north side, 254 feet east of gate at Broad street.

Binghampton avenue, Johnston, north side, 221.5 east of Greenville avenue.

Cedar street, Cranston, east side, at northeast corner of first street

north of Park avenue.

High Service avenue, North Providence, west side, 11 feet north of north

line of Smith street.

Maple street, Cranston, at northwest corner of second street north of Park avenue.

Northup avenue, north side, on northwest line of Edwards street.

Smith street, North Providence, northwest side, 335 feet east of Fruit Hill avenue.

Somerset street, north side, 205 feet east of east line of Prairie avenue.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand one hundred and seven — nineteen hundred and seventy-four flush, and one hundred and thirty-three post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter two hundred and sixty-six water meters were set, of which number eighty were to replace other meters. The use of ten meters was discontinued.

The following meters were in use at the close of the quarter:

					₩Z.E.					
€ .574	<b>;-</b> ∙n	j⊷n.	'n.	iş-in.	≟in.	∔m.	<b>↓</b> m.	4-in.	<u>}-ra</u> _	Total.
Badic Yota	1.70	 74F	47	- 14	•			<u> </u>		±10
Ballis Fire Harri			+	+		:	1			11
(Trimery)	1,-43-	5	πL	171:	384	.22	*	1		ц.3
imper-	544	295	*1	5.25	14.	. 1	ı			I 950
A Plant Smiller & willer			:							1
<del></del>					1.7		13	4		7.
inime.	24									
V.u-d	<b>;~</b> 4									>
11-121 mm 111 mm 111	- 46	تنه	-+	14	<b>::</b>	:	:	1		. 12
É-ribile	26		:							:4
Ventur.										:
					106					

For plumber's licenses were issued during the quarter indengatie value in each fore she hundred and thirty, all fowlish expired December 51, 1996.

Six leguired and ninety-seven plumbing permits were isolad bining the puriter.

One in the last sever twente applications for water were made that gother process, a sking the total number twente eight the usual and thirty.

The number of new service stops opened during the quarter was me him bell and eighty-three.

The first cumber of service steps opened to December 31, 1995, its listice, was twenty-seven thousand three hundred and thirty-two. The number in actual use December 31, 1996, was twenty-five thousand and ninety-four.

The following is a list of sprinkler hydrants for car sprinklers, namely:

Angell street, south side, 90 feet east of Wayland avenue, in sidewalk.

Bassett street, northwest side, 1051 feet southwest of Hoppin.

Branch avenue, south side, 316 feet west of Woodward road, in sidewalk.

Camp street, east side, 125 feet north of Olney, in sidewalk.

Chalkstone avenue, northeast corner of Fallon, in sidewalk. Dexter street, west side, 18 feet south of Cranston, in sidewalk.

Earl street, south side, 713 feet east of Bucklin.

Eddy street, west side, at Richmond, in street.

Eddy street, east side, 91 feet south of south line of Calla street, in sidevalk.

Edna street, west side, 16 feet north of south line of car house.

Elmwood avenue, east side, 85 feet south of Thrackeray street.

Hope street, east side, 125 feet north of Barnes, in street. Manton avenue, west side, 150 feet south of fire station, in sidewalk.

Market square, north side, 24 feet east of Canal street, in street.

North Main street, west side, 182 feet north of White, in street.

North Main street, west side, 17 feet north of Livingstone, in street.

Orms street, south side, 23 feet east of Windsor, in sidewalk.

Randall square, east side, 32 feet north of Randall street, in street.

Richmond street, southwest side, 44 feet southeast of Pine, in sidewalk.

Silver Spring street, north side, 61 feet east of Charles

Smith street, southwest side, 360 feet southeast of Hilltop avenue, in

sidewalk.

Thurbers avenue, south side, 208 feet east of Broad street, in sidewalk.

Wickenden street, south side, 167 feet west of Brook, in street.

Winter street, east side, 187 feet south of Pond, in sidewalk.

The following is a list of street sprinklers ready for use on the Providence water works, viz.:

Aborn street, near junction of Atwells avenue.

America street, near Atwells avenue.

Barton street, corner of Broadway.

Bradford street, near Broadway.

Branch avenue, near junction of North Main street.

Benefit street, foot of Angell.

Benefit street, between North Main and Halsey.

Beacon avenue, near Friendship street.

Broad street, near Gallup.

Broadway, north side, west of Harris avenue.

Camp street, between Cypress and Larch.

Codding street, near Westminster.

Cranston street, east side of railroad bridge.

Crary street, between Eddy and Hospital.

Cromwell street, near Dexter.

Daniel avenue, near Plainfield street.

Doyle avenue, near Hope street. Doyle avenue, near North Main street. Exchange place, west end.

Ford street, west of Cranston. Garnet street, near Pine.

Governor street, near Waterman.

Greenwich street, corner Elmwood avenue.

Harris avenue, near Atwells.

Hope street, junction of Thayer. Hope street, corner of Wickenden.

John street, corner of Benefit.

Knight street, corner of Grove.

Laurel Hill avenue, near Plainfield street.

Linden street, near Broad.

Manning street, near Brook. Medway street, east of Wayland avenue.

Melrose street, near south corner of burying ground.

Moore street, corner of Broad.

Morris avenue, north of Olney street.

North Main street, corner of Thomas. North Main street, near Mill.

Olive street, east of Prospect.

Olney street, near Camp. Orms street, near Ormsbee avenue.

Oxford street, corner of Eddy.

Pocasset avenue, near Plainfield street.

Power street, west of Hope.

Promenade street, west of Gaspee.

Promenade street, west of Holden.

Promenade street, west of Steeple.

Prospect street, corner of Bowen. Public street, about 200 feet east of Temple.

Reservoir avenue, opposite Atlantic.

Roger Williams park, near Broad street (private).

Salem street, between Potters avenue and Benedict street.

Smith street, near Oakland avenue.

Smith street, near Schaffer.

Smithfield avenue, north of Branch.

Smithfield avenue, north of the Moshassuck river.

Transit street, between South Water and South Main.

Traverse street, corner of Pike. Washington street, corner of Dean.

Webster avenue, north of Progress.

West Friendship street, near Broad.

Weybosset street, opposite Abbott park place.

Willard avenue, west of Prairie.

Willow street, west of Messer.

Winter street, near Pond.

Woodlaud street, near Holden.

The following is a list of drinking troughs supplied with water by the Providence water works, viz.:

Academy avenue, north of Chalkstone. Angell street, junction of South Angell. Atwells avenue, junction of Harris. Bassett street, off Hospital. Branch avenue and Abbott street. Broad street junction of Eddy. Broadway, junction of Westminster street. Canal street, near Linard. Charles street, corner of Ormsbee avenue. Charles street and Branch avenue. Chalkstone avenue, junction of Manton. Dexter street, near Durfee. Dorrance street, near Exchange place. Douglas avenue and Chalkstone, Douglas avenue and Admiral street. Dyer street, near Crawford street bridge. Dyer street, junction of Eddy. Elmwood avenue and Public street. Federal street, junction of Kenyon. Fountain street, junction of Carpenter. Hartford avenue, junction of Killingly street. Manton avenue, junction of Atwells. Miller avenue (Roger Williams park). North Main street, junction of Benefit. Olney ville square. Plainfield street, junction of Pocasset avenue. Prairie avenue, junction of Broad street. Point street, junction of Friendship. Point street, near the bridge. Potters avenue, corner of Cranston street. Randall square. Reservoir avenue, junction of Pontiac street. Rochambeau avenue, east of Blackstone boulevard. Smith street, junction of Chalkstone avenue. South Main street, junction of Wickenden. Thayer street junction of Hope. Trinity square. Waterman street, corner of East River. Westminster street, junction of Cranston. Weybosset street, near Mathewson. Wickenden street, corner of Governor.

Town of Cranston.

Cranston street, junction of Phenix road. Park avenue, corner of Doric.

Town of Johnston.

Manton avenue, near Killey.

#### The following is a list of drinking fountains, namely:

Atwells avenue, corner of Academy. Branch avenue, at Charles street. Benefit street, corner of College. Canal street corner of Steeple. Candace street, corner of Orms. Cranston street, junction of Westminster. Davis park. Dexter street, opposite Division. Dorrance street, near Exchange place. Dyer street, corner of Crawford. Friendship street, at Hayward park. Jackson street, corner of Westminster. North Main street, near Mill Olneyville square. Prairie avenue, opposite Comstock. Point street, corner of Eddy. Potters avenue, corner of Elmwood. Randall square. Roger Williams park, near Betsey Williams cottage. Roger Williams park, near Elmwood avenue. Roger Williams park, near the menagerie. Ship street, corner of Dyer. Tockwotton park. Westminster street, corner of Dyer. Wickenden street, corner of Transit.

		LE	NOTH	OF SE	LENGTH OF SERVICES IN FEET.	FEET.		ž	OMB	SR A	NUMBER AND SIZE	SIZE	X	OMB	EB	NUMBER AND SIZE	SIZE	89 X
	80	SIZES OF PIPE.	P PIP	i i		Total	Total		I do	APS	OF TAPS USED.	ò		S 40	TOP	OF STOPS USED.	CD.	e Bo
	inch.	finch.	inch.	inch. inch.	Totals.	of Trench- ing.	Length of Paving.	÷±	<b>₩</b>	m+g	- i	E.	÷g	an ji	m j	-i	To- tal.	Servic
	256.4	8.5	39.2	1	303.8	319.	57.	16	0.0	-	1	19	1	1	7		19	8
********	143.8	-	:		143.8	151.	6	6	1	:	:	œ.	6	1	1	:	6	6
***************************************	655.	20.3	*****	******	675.2	712.	857	42	-	-	:	43	4	-	1	***	94	94
	899.4	70.	28.4	26.2	1,024.	1,081.	132,	89	9	0)	-	67	61	0	C3	-	69	72
	1,186.2	106.8	:	26.2	1,319.2	1,376.	84.5	19	10	01	01	70	99	4	1	1	17	7
	.916	11.		2.9	989.9	1,046.	109.	52	9	:	64	99	83	0	1		69	-
	759.4	81.	19.0	8.2	867.6	912.	80.	94	10	1	1	55	8	KD	-	1	22	20
*********	991.1	11.8	33.2	34.4	1,130 5	1,186.5	114	99	10	4	.01	67	59	7	64	64	67	-
	885.6	43.4		26.2	955.2	1,003.	\$	7	4	-	1	200	18	20	i	1	69	9
***************************************	1,186.7	42.6	26.6	26.2	1,282,1	1,341.5	158.	13	63	20	69	69	88	60	* 60	-	75	76
	1,100.	110.	18.2		1,228.2	1,288.	162.	3	*	1	:	69	67	10	-	1	53	73
	319.1	.19	-	*****	380.1	403.5	47.	23	10	:	:	26	22	10	1	:	53	81
	9.298.7	686.	164.6	150.3	10,299.6	10,819.5	1,118.5	238	1 9	19	=	019	282	1 4	10	00	1 2	657

es Used.	Service Box	1,487 319 310 19,178 19,713	318 19,819 20,370
- 5	-g	810	318
SED	g	319	320
STOPS USED,	-₫	1,487	1,028
. E	* <u>#</u>		645,16,999 1,028 329
	· · ·	610	
	Tộ.	18,649	19,259
	₽±	366	377
da*	<u>i</u>	451	786
TAPS USED.		1,788	1,834
-	-#	15,432	15,970
	-£	612	612
	Paving.	39,412.78 012 15,482 1,788 451 806 18,649 045 16,417	39,531.28 612 15,970 1,834 466 377 19,259
	Trench.	17, 209,477,27, 314,989,79	325,800.29
N FEET.	Totalis.	17, 209,477,277 314,989,79	300,776.87 325,800.29
<u>.</u> -	- · · · · ·		ì

, following table shows the lengths, size To line, 31, 9,919.0 244,521.04 23,537.80 5,102.6 3,977.8 457.7 1906. LENGTH OF MERVICES IN Totale. | 9,919.9 200,720.28 24,228.89 6,327.2 4,128.11 457.7 MIZER OF PIPE.

YKAR.

į

Changes in size and location of services in 1906:

	Relaid.		0.3	ı
ue ozis		Change	00	
		Срапке	00	1
	o szis ni	Срапве	46	
		Paving	040.5	
			1 4	1
	·Bu	Ттепсћ	2,116	
		14 inch.	1	
	INSERTED.	14 inch.	137.6	
		inch. inch. inch. inch	222.8 104.2 71.2 532.2 250.4 169.4 137.5 2,115. 1,040.5 45	
SIZES AND LENGTHS OF LEAD PIPE.	Ix	inch.	259.4	
OF LE		inch.	532.2	
отня		inch. inch.	1	
D LES		14 Inch.	E.	
EN AN	OUT.	1 inch.	104.2	1
SIX	TAKEN OUT.	inch.	222,8	
		inch, inch, inch, inch.	533.5 744.9	
		inch.	533.5	
	INTERTED.	# 1	11	
		inch.	13	
		inch,	21	
TAPS AND STOPS.		inch.	55	
		inch.	1	red.
	TAKEN OUT.	inch.	9	39 services have been removed.
T		inch.	9	e been
		inch.	10	es have
		inch.	47	39 services have been removed. During the year 145 tens made searched characters and make the un and swamfined : 140 wave cleaned and 8 wave found uncharacters.
		op.	88	8 2

18 private taps were inserted.

	128	8	98	9	15	2	88	45	8	K	=	99	3	200
	130	2	=	95	8	98	22	12	22	90	3	8	87	3
	1887 1888 1889 1860 1861 1862 1893 1894 1895 1896 1897 1868 1899 1600 1902 1903 1904 1905 190	1 81	2	12	25	92	67	98	522	8	99	89	10	612
	2061	8	26	88	8	70	83	35	10	7	82	8	3	
	1900	12	18	30	13	200	F	4.	62	90	\$	認	46	61.6 ett 2
	1001	2	10	24	13	67	8	8	10	17	99	2	7	193
1	1900	1 3	16	30	÷	8	99	3	99	2.0	8	3	90	100
l	1899	1 3	1-	85	60	00	80	99	80	53	3	45	9	500
ĺ	1898	9	121	46	133	150	19	15	Z	2	47	2	1;	999
	1897	8	8	\$	20	82	98	99	60	67	20	10	20	888
ľ	9681	1 5	88				92	88	10	E	20	25	89	747
l	9681	1 8	36	27	19	6.7	100	89	2	20	96	89	2.9	7188
ľ	1681	1 8	87	40	91	81	100	8	911	113	98	0:	250	4 88
1	8687	9	75	36	E	16	100	98	115	88	96	98	25	
	80.5	1 3	83	28	20	83	108	105	104 1	114	102	118	102	1014 002
l	108	68	98	**	12	114	83	86	92	93	101	18	22	
ı	800 1	38	22	8	23	99	98	15	91	12	10	7.5	8	000 180
l	880	8	Ħ	61	8	7	90	77	90	3	E	188	22	_
	888	1 10	91	7	88	250	90	80	202	63	92	11	2	0 042
l	12.88	50	-	118	99	0:	90	70	69	7.4	1 08	60		2 570
ı		1 89	91	5	89	2	200	RS 6	11.	2 69	52 8	67 6	8	60.2
	85	1 12	-	0	48	100	81 5	12	7 79	20 0	62 6	_	83	900
١	1878 1879 1880 1881 1882 1883 1884 1885 1886	=	10	88	62	8 29	-	7 07	-	_	_	39	2	010
	81	101	0	11	9 99	81	18 1	-	100	8 80	90	10	2	110
١	82 18	-	-	_	-	_	3	99	99	86	+	9	8	613
l	81 18	11	3 11	39	40	22	48	4	87	25	8	8	21	040 014
١	91	-		23	28	99	82	99	28	00	8	37	9	
١	81	8	10	#	8	3	100	22	380	37	3	10	8	810
l	8 197	n 9	18 0	60 10	78 K2	96 80	3 71	80 40	10 1	# 59	62	100	4	777 613
l	181	1 2	22	32 6			103		10 11		78	10 8	9	
l	187				82	8 136	=	69	16	80	1 81	17.18	80	800
	287	99	200	7 45	2 108	168	148	178	-	8	2	20	8	877 1008
1	181	1 6			372	162	172	3	83	101	0.3	-	8	100
	- 1	22	18	63	109	147	122	127	123	130	160	185	153	1009
I	7752 1879 1879 1870 1870	88	12	26	100	200	200	2011	300	147	130	101	\$	1686
	15.5	10	4.7	8	3100	224	9230	203	200	184	138	100	M.D	1843 1686 1898
	1781	1 3	3	1	2	1	-	:	-	12	:	15	8	-

\_\_\_\_\_\_

The receipts for water each year since the commencement have been as follows:

Year.	Amount.	Year.	Amount.
1872	<b>\$</b> 41,003 51	1890	\$401,140 86
1873	97,386 09	1891	404,563 ×
1874	132,052 39	1892	409,421 21
1875	165,144 71	1893	427,546 51
1876	183,868 73	1994	432,383 97
1877	200,039 39	1895	471,069 97
1878	218,883 33	1896	485,187 33
1879	229,551 78	1897	490,652 47
1880	247,705 06	1898	502,603 10
881	260,530 87	1899	522,124 46
1882	269,318 77	1900	554,949 62
1883	283,632 89	1901	578 <b>,869</b> 07
1884	<b>30</b> 2,3 <b>F</b> 8 36	1902	605,307 38
1885	313,561 21	1903	621,016 74
1886	323,084 67	1904	670,700 90
1887	339,513 60	1905	673,252 97
1888	346,731 58	1906	691,459 12
1×89	377,497 97		

The amount of bills approved on account of water works from October 1, to December 31, 1906, inclusive, was:

## Classified as follows:

## PRITACONSET PUMPING STATION.

Coal and wood	<b>\$</b> 0,426	86
Sundries	970	87
Firemen	924	00
Engineers	590	30
Superintendence	442	00
Repairs on boilers	162	40
Oil, waste and packing	152	73
Amount carried forward	\$8,669	16
3		

\$68,927 97

Amount brought forward	\$8,669 16	
Care of grounds	130 20	•
Allis-Chalmers high-duty engine	90 08	
Barn expenses	67 50	
Labor on fuel	56 80	
Corliss pumping engine and house	22 00	
Lights	26 53	
Worthington high-duty engine	25 60	
	11 75	
Cornish engine house		
Horses, wagons, harnesses, etc	10 06	<b>\$9,</b> 119 67
SAND FILTRATION PLANT.		
	<b>6</b> 90 104 74	
Installation	\$39,104 54	
Cleaning beds	3,807 14	
Labor and supplies, pumping	1,783 33	
Miscellaneous supplies	1,467 08	
Laboratory — labor and supplies	548 93	46,711 00
	•	70,111 W
- Sockanosset Reservoir.		
Šundries	\$239 88	
Watchman	182 00	
•	<del></del>	421 8
Hope Pumping Station.		
Coal and wood	\$1,165 33	
Firemen	442 20	
Engineers	340 14	
Sundries	71 76	
Lights	59 85	
Repairs on boilers	680	
	3 62	
Oil, waste and packing	3 62	2,089 70
•		
Hope Reservoir.		
	\$1.098 60	
Sundries	\$1,098 60 204 75	
Sundries	\$1,098 60 204 75	1,303 38
Sundries		1,303 36
Sundries	204 75	1,303 36
Sundries Watchman FRUIT HILL RESERVOIR. Sundries	\$413 73	1,303 36
Sundries	204 75	·
Sundries	\$413 73	·
Sundries Watchman FRUIT HILL RESERVOIR. Sundries Watchman METER DEPARTMENT.	\$413 73 182 00	·
Sundries Watchman FRUIT HILL RESERVOIR. Sundries Watchman METER DEPARTMENT.	\$413 73 182 00 \$6,612 35	1,303 38 596 73
Sundries Watchman FRUIT HILL RESERVOIR. Sundries Watchman METER DEPARTMENT.	\$413 73 182 00	·

Amount carried forward.....

Amount brought forward			<b>\$</b> 68,927 9
PIPE LINE AND SERVICE STOR	P8.		
Repairs	\$4,185		
Salaries of assistant engineers	1,788		
Inspection of pipe line and services	1,297	34	
Superintendence—salaries	874	25	8,145 4
			,
PIPR YARD.			
Cast iron water pipe	\$86,691		
Laying water pipe	19,101		
Leading main from Sockanosset to city—to lay	16,950		
Service pipe	1,898	83	
Laying service pipe	1,619		
Special castings	1,503		
Stop valves	1,433		
Tools	766		
Pig lead and tin	707		
Labor on and carting pipe	531		
Taps and stops	154		
Pipe yard, office expenses		74	
Special water service for fire protection	58	87	*** ***
_			131,506 0
Miscrllan rous.			
Town of Cranston, tax	\$9,616	<b>62</b>	
Clerks' and inspectors' salaries	1,752	40	
Barn expenses	804	94	
Prevention of defilement of the Pawtuxet	517	73	
Inspection of water pipes with reference to elec-			
trolysis	416	43	
Town of North Providence, tax	400	00	
Car fares	225	90	
Horses, wagons, harnesses, etc	196	40	
Public drinking fountains and troughs	153	13	
Telephone lines	122	68	
Sundries	30	72	14 000 0
<del>-</del>		_	14,236 0
			\$222,815 56
The total expenditures to December 3	1,		
1906, inclusive, was	. \$10	),93	3,824 42
The not expenditure for maintenance from Octo			
The net expenditure for maintenance from Octo-			@015 022 O
ber 1, to December 31, 1906, inclusive, was			\$215,033 00
The net expenditure for maintenance to Decem-			
ber 31, 1906, inclusive, was		8	3,172,588 94

The value of the water works system Jan-
uary 1, 1906, as estimated by the city engi-
neer, was as follows:

Pettaconset pumping station	2340,694	00	
Hope pumping station			
Sockanosset, Hope and Fruit Hill Reservoirs			
Main lines and distribution pipes	2,768,494	94	
Real estate in Pawtuxet and Lincoln	15,975	00	
Tools and supplies	39,161	63	
		—	\$3,976,663 0

### As follows:

Water	<b>\$</b> 87,141	80	
Water meters	4,099	50	
Labor and material, laying services, etc	2,325	10	
Setting and repairing meters	1,828	09	
Rent of real estate	104	92	
Penalties	50	00	
Sale of old metal	38	43	
Permanently closing service stops	25	00	
Empty oil barrels	6	40	
- ·			<b>605 619 94</b>

During the quarter coupons from bills collected have been returned by the city treasurer and receipted for to the amount of . \$62,329 91

## As follows:

Water	<b>\$</b> 54,497	38	
Water meters	3,831	00	
Labor and material, laying services, etc	2,388	62	
Setting and repairing meters	1,391	56	
Rent of real estate	94	52	
Penalties	50	00	
Sale of old metal	38	43	
Permanently closing service stops	25	00	
Repairs on pipe line	7	00	
Empty oil barrels	6	40	
			600 900

#### SEWERS.

Four drain layer's licenses were issued during the quarter, making the total number in force one hundred and forty-three, all of which expired December 31, 1906.

During the quarter, two hundred and thirty-four permits were issued to drain layers—one hundred and one for new work and one hundred and thirty-three for extensions and repairs of drains.

November 8th, the proposals of Starkweather and Williams Company, and Charles S. Bush Company, to furnish and deliver at Harbor Junction wharf the prime green copperas in bulk required during 1907, at 60 cents per one hundred pounds, were each accepted for one-half the quantity required, respectively.

November 16th, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

sewers were certified to the city treasurer as follows:	
Ravine street and Randolph street to Smith, thence through	
McCaughin street to Chalkstone avenue (Section 19. I. S. S.)	<b>8</b> 42 18

Hamilton, Irving and Melrose streets......

\$50 18

8 00

December 1st, ordered of James C. Goff Company one cargo of Sanford bricks at \$9.50 per M., delivered on the city wharf.

Dec. 21st, the proposal of the Warner-Miller Company to furnish and deliver at the city yard 50 catch-basin flagstones at \$5.60 each, was accepted.

The proposal of the Smithfield Granite Company, to furnish and deliver at the city yard 75 catch-basin inlet stones at \$4.75 each, was accepted.

December 26th, the proposal of Fuller Iron Works to furnish and deliver at the city yard the sewer castings required by the department for 1907, was accepted and a contract subsequently executed. Amount \$1,641.03.

December 28th, the proposal of Charles M. Kelly to furnish the cement required during 1907 was accepted and a contract subsequently executed as follows:

SEWERS CONSTRUCTED TO DECEMBER 31, 1906, IN MILES.

ITEMS.	KIND.	Built previous to 1906.	Built during 1906.	Total to Dec. 31, 190k
Under regular appropria-				
tion	Brick.	40,449	.512	40.961
Under regular appropria-		i 	1 :	
tion	Pipe.	134,790	1.751	136,541
Under improved sewerage			!	
appropriation.	Brick and pipe.	28,388		28,388
Total miles of sewers		203,627	2.263	205,890

During the year, 70 catch-basins, 66 extra inlets and 116 manholes have been built, making a total in use December 31, 1906 of 4,861 catch-basins, 1,724 extra inlets and 8,891 manholes.

During the quarter the construction of the following sewers was completed, namely:

<sup>&</sup>quot; Atlas" - Portland at \$1.90 per barrel delivered on the work.

<sup>&</sup>quot;Brooklyn Bridge" - natural at \$1,15 per barrel delivered on the work.

No. of resolution. Date of approval.

1. Aug. 3, 1906, McKinley street from

Elmwood arenue to Al-

ger. . . . Oct. 24, 1906. " " " Waterloo street, from near

Parade to Dexter. . Oct. 6, 1906. 373. Sept. 11, 1906, Exchange place, from

near present end of sewer

to about 200 feet norther
ly, in front of the new

post office building. . Nov. 3, 1906,

Work upon the following sewers was in progress at the close of the quarter, namely:

No. of resolution. Date of approval.

360.

68. Feb. 7, 1905, Pleasant Valley Division, Section 31.

288. Sept. 12, 1905, West River street, from Cross to Burke, and from West River street at Elk rasterly through right of way about 530 feet to end of Section 22 of the im-

209. May 8, 1906, Veazie street, from its summit northwesterly to the sewer in Douglas avenue near Stansbury street, and from its summit southeasterly in Veazie street and Douglas avenue to present end of sewer

proved sewerage system.

about 270 feet west of Hawkins street.
358. Aug. 3, 1906, Mount Pleasant avenue, from Atwells to Dover street.

Work upon the following sewers, completing the work ordered by the city council, had not commenced December 31, 1906, namely:

No. of resolution. Date of approval.

210. May 8, 1906, Plainfield street, from near Lowell avenue to Laurel Hill.

359. Aug. 3, 1906, Progress avenue, from Webster to Whitehall street.

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tiso		Total amour removed,	1,847.37	1,492.29	941.65	1,756.56	1,971.67	1,939.55	2,408.41	2,209.30	2,053.15	1,927.80	1,887.74	755.19		
	CATCH-BASINS.	ASINS.	ASINS.	Deposit removed, cu. yards.	980.19	983.70	495.45	1,552.54	1,610.80	1,623,46	2,085.06	1,876.74	1,821,92	1,667.70	1,525.74	755.19
		Number eleaned.	1,093	926	346	903	1,207	906	1,102	1,117	1,197	1,185	1961	300		
	C	No. times examined.	-	-	-	on	+	29	91	1	94	94	1	-		
WORK.		Dead Ends.				1	2		8	dian	0000		*****	******		
NEW W	TRES.	Deposit removed, cu, yards.	69.69	103.18	69.95	14.21	100.37	27.27	48.08	38.59	15.41	28.82	81.00	65.30		
	SEWER	Length Jool at	16,100	14,626	18,700	2,000	27,375	10,975	18,000	9,200	2,200	3,475	34,000	9,300		
		Number.	1 22	3	8	0	3	3	106	46	6	14	180	B		
	OMPS.	Deposit removed cu, yards,	297.59	405.41	369.67	175.92	239.67	288.82	274.77	274.89	206,93	237.37	963.14	329 15		
	S	Number.	00	95	57	-	*	51	31	18		16	18	51		
	DITCHES.	Deposit removed cu. yards.	***************************************	200	6.48			********		.0	********	*******	38.08			
	Oves Di	Length in feet.			15					275			470			
	-	Number,		1	-	1	1	-	1	-	1	1	-	:		
OLD WORK,	SAND.	Deposit removed, cu, yard,	9111111	000000			********			14.08		*******		initia		
OLD	CAN	Number.		-	1	1	÷	1	1	9		1	1	1		
	DRAINS.	Deposit, removed, ou. yards,				13.88	27.78	*********		********	13.89	**********		and the		
	OLD DR.	Length , 1991 at	1		*******	17.6	476	*****	****		000	Sec. 10		0		
	0	Number,	1	:		-	104	1	1	:	1	1	****			
		Мохтив.	January	February	March	Npril	'day	Tune	fuly	Angust	September	Detober	November	December		

In addition to the accompanying form, the following work has been performed by the sewer maintenance department for the year 1906:

#### WORK ON SEWERS.

Examined all sewers for condition and deposit, and all slots, gates, and sumps forty-eight times. Replaced 100 manholes frames, 113 manhole covers, and five track grates; also reset 242 manhole frames. Repaired ten sewers, six gates in sewers, five house connections, thirty-seven holes over sewers, and thirty-seven manholes. Cut in eight eight-inch and fifteen six-inch connections; brought thirteen manholes to grade; removed roots from 126 sewers; altered house connection on Allens avenue and Henderson street; carted loam and sand to cover deposit, and cleaned three pump wells at brick station on Ernest street; removed dead horse from precipitation tanks; cleaned and repaired yard on account of washout; put bulkheads in two sewers; flushed two connections from curb to sewer, and removed deposit from two sewer outlets.

#### WORK ON BASINS.

Examined all basins for concrete and repairs. Flushed 2,756 chutes and 4,155 traps in basins, and removed snow from 2,149 inlets. Repaired sixty-five holes at basins, fifty-six basins, twelve chutes, six storm traps, and 121 basins with gravel. Altered ten basins, altered and repaired eight basin connections, also altered and extended storm drain on Branch avenue Reset sixty-one traps; replaced twelve basin covers; removed roots from two basin connections; built five basins and two chutes; reconnected one basin; abandoned one basin, and put fifteen extra traps in basins.

#### OLD WORK.

Examined all old drains and ditches for condition and deposit. Extended ten old drains 415 feet. Repaired four old chutes, and ten old drains. Built four chutes; altered one old drain, and leveled twenty-three dumps.

#### MISCELLANEOUS WORK.

Cleaned ninety-eight connections, charged \$249.85; cut in three connections for David Crankshaw, \$12.50; cleaned sewer on Narragansett avenue for Timothy F. Lyons, \$11, and F. E. Shaw, \$24; extended sewer on Point street for Tank and McKinnon Construction Company, \$14.25; puddled ditches for Providence Gas Company, \$363.40; pumped out four cellars, \$36.45; built basins, manholes, and supplied water for Rhode Island Company, \$991.14; altered basins, etc., for Brown and Sharpe Manufacturing Company, \$15.75; repaired sidewalk for Elisha Dyer, \$36; built basins and altered manholes, etc., for N Y. N. H. and H. R. R. Company, \$44.32; flushed sewer for George W. Upper, \$7.25; pumped out mine for Rhode Island Graphite Company, \$39.75; built manholes and repaired sewer for Bruno, Salomoni and Petitti, \$188.14; built and altered basins, etc., on Charles street for United States Finishing Company, \$206.78; put in house connection on Smith street for John C. Dunn, \$37.50; built basins and altered manholes on Brayton avenue for General Fire Extinguisher Company, \$55; set bound stones for the contagious hospital, \$12; built

basin for Riverside Mills, \$34.60; altered chute on Middle street for Philip Case, \$9.75; put in house connection on South Main street for T. E. Manney, \$54.50; repaired basin on Adelaide avenue for Providence Telephone Company, \$2.75; built basin on Earl street for Gorham Manufacturing Company, \$46.75; thawing ground for E. W. Everson, \$36.50, and for W. N. Chadsey, \$12.50; furnished man at hydrant for Providence Veteran Firemen's Association, \$3.42; pumped out well at 34 Pratt street, \$8.75.

Water Maintenance Department: Repaired buildings at Pettaconset pumping station and Sockanosset reservoir, also sewer in Allens avenue. Built manholes on Broadway, Crânston street, and Park avenue. Connected drinking fountain on Charles street and sprinkler hydrant on Eddy street. Pounded and seeded banks at Hope and Sockanosset reservoirs. Made repairs at Hope pumping station. Cleaned, repaired, and carted clay to Hope reservoir. Cleaned filtration tanks and removed ice from same. Made repairs on line of new forty-two-inch leading main on Park avenue. Altered basin connections and drain on Harris avenue and Pocasset avenue and cleaned gates, etc., at Sockanosset reservoir for new forty-two-inch leading main.

Sewer Construction Department: Built 233.52 feet of twelve-inch sewer, sixty-six chutes, thirty-three basins, and five manholes. Abandoned one manhole and one inlet; removed nine inspectors' houses, and altered basin on Rugby and Broad streets.

Highway Department: Altered manholes and basins, and extended connections to curb on South Main street. Built chimney at crusher.

Abolishing Grade Crossings: Built basin and drain on Ridge street.

The amount of bills, approved on account of sewers from October 1, to December 31, 1906, inclusive, was:

For construction,		•	•	•	\$12,202 78
Charged as follows	:				

Material	\$2,142	04
Additional catch-basins	523	26
Sundries	348	27
Contract reservations	319	00
Testing cement	288	75
Sewer in Exchange place, in front of new post-		
office building	1,320	34
Sewer in McKinley street, from Elmwood avenue		
to Alger	679	31
Sewer in Mount Pleasant avenue from Atwells		
to Dover street	806	Sii
Sewer in Plenty, Linden and Sorrento streets	223	18
Sewer in Veazie street and Douglas avenue	1,540	98
Sewer in Waterloo street, from near Parade to		
Dexter	55	95
Sewer in West River street and in right of way	1,217	18
Sewer in Pleasant Valley Division, Section 31	2,737	(iti
	\$12,202	78

For maintenance:	•	<b>\$</b> 33, <b>2</b> 97	<b>32</b>
Classified as follows:			
Cleaning basins and sewers	\$6,128	48	
Repairing basins and sewers	4,096	71	
Sundries	1,098	37	
Use of water	900		
Tools	880		
Cleaning and repairing old drains	728		
Inspection of connections	667		
Barn expenses	496 442		
Horses, wagons, harnesses, etc	323		
Office expenses	115		
Telephone lines		18	
Car fares		00	
Cleaning private connections		20	
Filling cisterns, etc		00	
EBNEST STREET STATION.			
Coal and wood	1,516	01	
Engineers	875	98	
Cleaning screens	642	65	
Firemen	431	67	
Cleaning and repairing pumps	373	60	
Repairs on engines	127		
Supplies		76	
Care of buildings	61		
Care of grounds		43	
Repairs on buildings	43		
Lights		40	
	<b>\$2</b> 0,218	04	
SEWAGE PRECIPITATION TANK		00	
Chemicals	\$5,047		
Miscellaneous supplies	2,686 2,294		
Labor on sewage precipitation	1,383		
Repairs on buildings	728		
Electrical power	630		
Fuel	239		
Lights	42	_	
Repairs on machinery	29		
	\$33,297	32	
The net expenditure for construction of sewers			_
ber 31, 1906, inclusive, was			3 49
The net expenditure for maintenance of sewers ber 31, 1906, inclusive, was	to Dece	m- <b>\$1.</b> 391.60	8 65
		,,,,,,,	

Bills deposited with the city treasur	rer			
for collection from October 1 to Decemb	per			
31, 1906, inclusive, amounted to	•		<b>*</b> 2,592	50
As follows:				
Miscellaneous work	<b>\$1,124</b>	34		
Pumping out cellars	45	30		
Cleaning private connections	37	00		
Two granite basin sets	:10	00		
Sewer material	1,:125	OE:,6		
Laying drains to curbstone		16		
Testing cement	4	50		
During the quarter, coupons from bi		50		
collected have been returned by the ci	lls ity	50		
collected have been returned by the ci treasurer and receipted for to the amou	lls ity		<u>\$2</u> ,868	ġ,
collected have been returned by the citreasurer and receipted for to the amou	lls ity		\$ <u>2</u> ,868	ŷŶ
collected have been returned by the citreasurer and receipted for to the amou	lls ity		<u>\$-7</u> ,868	ŷ
collected have been returned by the citreasurer and receipted for to the amou of	lls ity int		<u>\$2</u> ,868	ŷ
collected have been returned by the citreasurer and receipted for to the amou of	ills ity int \$1,458 47 30	or 25	\$2,868	ŷ
collected have been returned by the citreasurer and receipted for to the amou of	\$1,458 \$1,458 47 30	or 25 00 20	\$2,868	ŷś
collected have been returned by the citreasurer and receipted for to the amou of	\$1,458 \$1,458 47 30 15	67 25 00 20 90	\$2,868	ŷ۰
collected have been returned by the citreasurer and receipted for to the amou of	\$1,458 47 30 15 1,286	or 25 00 20 90 16	\$ <u>2</u> ,868	ŷ
collected have been returned by the citreasurer and receipted for to the amou of	\$1,458 47 30 15 1,286	67 25 00 20 90	<u>\$</u> 2,868	95

# HIGHWAYS.

Two permits to open streets were issued during the quarter.

October 3d, the proposal of the Buffalo Steam Roller Company to furnish and deliver in the city yard one 15-ton double-cylinder Buffalo-Pitts road roller for the sum of \$3,500, was accepted.

The proposal of the Narragansett Improvement Company, to lay Bermudez asphalt pavement on Broadway from Barton street to the easterly line of Jackson street was accepted and a contract subsequently executed at the following prices, namely:

For asphalt with binder, a layer of 1 1-2 inches each, \$1.30 per square yard.

For asphalt with paint coat and wearing layer of 2 inches, \$1.14 per square yard.

For asphalt, one layer of 2 inches without paint coat, \$1.00 per square yard.

December 3d, the proposal of Booth Brothers and Hurricane Isle Granite Company to furnish and deliver in the city yard 8,000 square yards of granite blocks, cut in accordance with Providence specifications, for \$1.44 per yard, was accepted.

Eight hundred and eighty-one notices to build or repair sidewalks were served on the abutting owners during the year 1906. The work, including seventy-one brought over from the preceding year, was done as follows:

By the abutting owners	717
By the city, at the expense of the abutting owners	100
Extension of time for doing work granted to	23
Work not done	112

The length of received streets December 31, 1906, was about 236.87 miles, measured on street lines and to street line intersection. But, as it is customary in street construction or street paving to complete the work to the curb line intersection, the lengths in the following tables are measured on those lines and sub-divided as follows:

Received streets	243.23 miles.
Streets curbed and built with macadam	. 167.91 miles.
Streets not curbed, but the roadway macadamized o	r
graveled	. 29.25 miles.
Streets curbed and paved	. 34.66 miles.
Streets received, but not improved	. 11.41 miles.
Total	243 23 miles

The actual area of street pavement is 764,863 square yards. If this is estimated to an average width of roadway of 30 feet, it would be equal to 43.46 lineal miles, and is sub-divided as follows:

Granite blocks	12.54 miles.
Cobble	5.01 miles.
Asphalt	5.08 miles.
Vulcanite	.41 miles.
Brick	.42 miles.

In addition to the general patching necessary to maintain the streets in good repair, the following work has been done during the year ending December 31, 1906, namely:

New streets built of macadam	15,470.00	linear feet.
New streets paved	1,355.00	linear feet.
Curbing set	31,891.5	linear feet.
Streets rebuilt	5,050 00	linear feet.
Streets resurfaced	183,100 00	line <b>a</b> r feet.
Streets graded	8,475.00	linear feet.
Block pavement laid	33,608.80	yards.
Asphalt pavement relaid	22.386 50	square yards.
Block paving relaid	9,205.90	square yards.
Brick paving relaid	3 <b>0</b> 5.40	square yards
Concrete sidewalks laid	4,854.10	square yards.
Concrete sidewalks patched and top-dressed	5,155.80	square yards
Crushed stone used	55,683.15	tons.
Screened gravel used	2,749.5	cubic yards.

Of the above amount of pavement laid and relaid, the cost of laying and relaying 39,696.4 square yards, amounting to \$63,316.08 was paid by the corporations for which the work was done.

The following named streets aggregating 34.6 miles, have been resurfaced during the year:

Academy avenue, from Chalkstone to Atwells.
Allens avenue, from Henderson street to Public.
America street, from Broadway to Federal street.
Andem street, from Canton to Academy avenue.
Angell street, from Benefit to Thayer.
Arthur avenue, from Cedar street to West Exchange.
Atwells avenue, from Aborn street to Bradford.

Ayrault street, from Valley to Chalkstone avenue.

Bancroft street, from Pocasset avenue to Sterling. Bath street, from Orms to Calverly. Beaufort street, from Academy avenue to Mount Pleasant. Bellevue avenue, from Dexter street to Cranston. Benedict street, from Cranston to Salem. Benefit street from Wickenden to North Main. Beverly street, from Fountain to Sabin. Blackstone street, from Plain to Allens avenue. Blackstone boulevard. Blount street, from Bassett to Elm. Bogman street, from Plain to Prairie avenue. Bowen street, from Thayer to Hope. Branch avenue, from Dryden lane to Smithfield avenue. Branch avenue, from Charles street to Hawkins. Bridgham street, from Cranston to Trinity square. Broad street, from West Friendship to Parkis avenue. Burgess street, from Cranston to Westminster. Butler avenue, from Pitman street to Angell. Byron street, from Broad to Pine. Calender street, from Fountain to Sabin. ('alhoun avenue, from Potter to Huntington. Cargill street, from Fountain to Carpenter. Cemetery street, from North Main to North Grove. Chalkstone avenue, from Charles street to Evans. Chalkstone avenue, from Douglas to Camden street. Chalkstone avenue, from Manton easterly. Charles street, from Silver Spring to 1,800 feet northerly. Charles Field street, from Thayer to Hope. Chestnut street, from Point to Elm. College street, from South Main to Benefit. Concannon street, from Veazie to Moy. Cooke street, from Angell to Power. Dale street, from West Exchange to Atwells avenue. Davis street, from Smith to Cherry. Douglas avenue, from Orms street to Chalkstone avenue. Doyle avenue, from North Main street to Hope. Dudley street, from Eddy to Plain. East street, from Wickenden to Williams. Eaton street, from River avenue to Oakland. Eddy street, from Broad to Pavilion avenue. Elmwood avenue, from railroad bridge to city line. Felix street, from Valley to Chalkstone avenue. Fenner street, from Broad to Cathedral square. Field street, from Davis to State. Florence street, from Amherst to Manton avenue. Ford street, from Dexter to Messer. Foster street, from Pine to Friendship

Francis street, from Smith to Brownell.

Fremont street, from Governor to Ives.

Franklin street, from Westminster to Washington.

Fruit Hill avenue, from Manton to Woomsquatucket. Gano street, from Waterman to Angell.

Garden street, from Greene to Franklin. Greenwich street, from Bucklin to Potter avenue.

Halsey street, from Benefit to Brown.

Hanover street, from Dexter to Cranston

Harris avenue, from Atwells to Broad way. Harrison street, from Sprague to Wilson.

Hartford avenue, from Merino to Killingly street.

Hendrick street, from Academy avenue to Mount Pleasant. Hill street, from Howard to Perry.

Hope street, from India to George. Hope street, from Bowen to Olr

Hope street, from Phillips to Rocmambeau avenue. Hopkins street, from South Main to Benefit.

Hoppin street, from Point to Bassett.

Houston street, from Broad to Plum. Howard street, from Westminster to Broadway.

Howell street, from Camp to Hope. Hudson street, from Messer to Sycamore.

James street, from South Main to Benefit.

Jefferson street, from Orms to Smith.

Jenckes street, from Benefit to Congdon.

Kay street, from railroad crossing to Thurbers avenue.

Kinsley avenue, from Harris to Eagle street.

Knight street, from Westminster to Cranston.

Langdon street, from Branch avenue to Monticello street Liberty street, from Jefferson to Smith.

Linden street, from Providence to Friendship. Lockwood street, from Haskins to Prairie avenue.

Manton avenue, from Fruit Hill to Sisson street.

Manton avenue, from King street to Florence.

Medway street, from Wayland avenue to Butler.

Moy street, from Concannon to Henrietta.

Mulberry street, from Orms to Cherry.

North Main street, from Sexton to city line. Opper street, from Branch avenue to Monticello street.

Orms street, from Charles to Black.

Orms street, from Smith to Douglas avenue.

Parnell street, from Cloud to Atwells avenue.

Pearl street, from Cranston to Broad.

Perry street, from Westminster to Broadway.

Pitman street, from Gano to Butler avenue.

Plain street, from Public to Ashmont.

Plainfield street, from Jewell to city line.

Plenty street, from Elmwood avenue to Broad street.

Plum street, from Oxford to Houston.

Pocasset avenue, from Webster to Plainfield street. Potter avenue, from Calhoun to Dexter street.

Prairie avenue, from Broad street to Richardson.

Preston street, from Governor to Ives.

Princeton avenue, from Broad street to Updike. Promenade street, from Park to Gaspee. Public street, from Ocean to Plain. Public street, from Broad to Hamilton. Reservoir avenue, from Pontiac street to Algonquin. Rochambean avenue, from Camp street to Blackstone boulevard. Roosevelt street, from Bancroft 100 feet westerly. Rugby street, from Thurbers avenue to Pavilion. Scott street, from Howell to Doyle avenue. Shepard street, from Broadway to Carpenter street. Smith street, from Elmhurst to city line. Smith street, from Ruggles to Oakland avenue. South Angell street, from Wayland avenue to Butler. South Court street. from Benefit to Congdon. State street, from Smith to Field. Superior street, from Cranston to Diamond. Swan street, from Eddy to Ocean. Tanner street, from Pearl to Dudley. Thayer street, from Barnes to Angell. Thayer street, from Waterman to Power. Thurbers avenue, from Kay street to Blundell. Transit street, from East to Governor. Traverse street, from Pike to Tockwotton. Updike street, from Public to Whitmarsh. Union avenue, from Webster to Cumerford street. Van Buren street, from Oxford to Houston. Waterloo street, from Dexter to Parade Waterman street, from Wayland avenue to Butler. Waterman street, from Prospect to Thayer. Wayland avenue, from Pitman street to Waterman. Webster avenue, from Pocasset to Union. Wendell street, from Messer to Superior. West Exchange street, from Aborn to Atwells avenue. West River street, from Cross to Walling.

.95 miles of streets have been rebuilt during the year namely:

Charles street, from Admiral to Silver Spring.
Crawford street, from South Water to South Main.
Eddy street, from Westminster to Fulton.
Henderson street, from Eddy to its easterly termination.
Sabin street, from West Exchange to Aborn.
South Main Street, from Crawford to Planet.
Union street, from Washington to Fountain.

Whitmarsh street, from Broad to Updike.

1.6 miles of streets have been graded during the year as follows:

Allens avenue, from Seymour street to track of New York, New Haven & Hartford Railroad Company.

Cedar street, from West Exchange to Acorn.

Chatham street, from Branch avenue to Denison street. Elton street, from Humboldt avenue easterly 200 feet.

Eudora street, from Eddy to Pos.

Grotto avenue, from President to Irving.

McKinley street, from Elmwood avenue to Alger.

Narragansett avenue, from city line to a point 120 feet north of Ardens street.

River avenue, from Smith street to Eaton.

Unit street, from Chalkstone avenue to Maynard street.

What Cheer avenue, from Pocasset to Laurel Hill.

# During the quarter the following work was completed:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

1906, May 17, Sorrento street, from Union avenue to Waverly street. Sackett street, from Elmwood avenue to Melrose street. Eudora street, from Eddy to Poe. June 21, Poe street, from Rhodes to Public. Sept. 20, Elton street, from Wayland avenue to Humboldt. Oct. 18. Cedar street, from Acorn to West Exchange.

Remove Obstructions, Grade and Put in Good Condition.

June 21, 1906, River avenue, from Eaton street to Smith.

TAKE POSSESSION AND REMOVE OBSTRUCTIONS.

Nov. 1, 1906. Liberty street, from Smith to Jefferson.

" 15, " Cedar street, from Acorn to West-

Exchange.

# The following work was in progress December 31, 1906:

SIDEWALKS CURBED AND GUTTERS PAVED.

Dute of order.

Aug.	2,	1906,	Allens avenue, from Henderson street to Globe.
Sept.	20,	66	Kelly street, from the angle in said street to Bancroft.
Nov.	15,	"	McKinley street, from Elmwood avenue to Alger.

LAY OUT, EXTEND, WIDEN, AND IMPROVE.

Date of order.

Aug. 3, 1906, Allens avenue and Eddy street.

The following work, ordered by the board of aldermen and city council, had not commenced December 31, 1906, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

Nov. 15, 1906, Mount Pleasant avenue, from Atwells to Dover street.

" " Progress avenue, from Webster to Whitehall street.

Bills approved on account of highways from October 1, to December 31, 1906, inclusive, amounted to:

Regular appropriation	\$20,101 40	
Special appropriation	26,303-59	
•		\$122,455 07

Classified as follows:		
Repairs on paved streets	\$31,925 99	
Cleaning streets	16,943 92	
Repairs on unpaved streets	14,258 67	
Crushed stone, material and labor	12,469 17	
Barn expenses	2,998 45	
Blacksmith and wheelwright shop	2,765 60	
Tools, implements, etc	2,621 12	
Removing snow and ice	1,128 16	
Repairs on stone crushers	1,013 18	
Labor on material	698 34	
Stone, paving and crosswalk	653 90	
Steam rollers, repairs and sup	587 26	
Sundries	561 13	
Watering streets	546 94	
Superintendent's salary	<b>442 00</b>	
Building driveways, etc	401 21	
Horses, wagons, harnesses, etc	289 93	
Fencing streets, material and labor	267 63	
Watchman at city yard	156 00	
Repairs on buildings, highway yard	73 01	
Office expenses, city yard	46 42	
Car fares	45 00	
Telephone lines	5 60	
		\$90,896
NEW WORK — BUILDING AND I	REBUILD-	
ING STREETS, ETC.		
SIDEWALKS CURBED AND GUTTERS	PAVED.	
Cedar street, from Acorn to West Exchange	<b>2</b> 849 99	
West street from Wouldnel onemus to Trumbaldt	4020 00	

SIDEWALKS CURBED AND GUITERS	I AVED.		
Cedar street, from Acorn to West Exchange	<b>\$81</b> 9	99	
Elton street, from Wayland avenue to Humboldt	620	98	
Eulora street, from Eddy to Poe	461	43	
McKinley street, from Elmwood avenue to Alger	824	14	
Poe street, from Rhodes to Public	695	98	
Suckett street, from Elinwood avenue to Melrose			
street	860	22	
Sorrento street, from Union avenue to Waverly			
street	940	11	

REMOVE OBSTRUCTIONS, GRADE AND PUT IN GOOD CONDITION. Crawford street, from South Water to South Main,

and South Main street, from Crawford to Planet....

LAY OUT, EXTEND, WIDEN AND IMPROVE.

Allens avenue and Eddy street.....

14,041

\$122,455 (

5,252

12,202

Bills deposited with the city treasurer for collection from October 1, to December 31, 1906, inclusive, amounted to . . . \$11,760 61

#### As follows:

Labor and material	\$10,582	71
ments	541	80
Street sweepings	238	25
Building driveways, etc	184	11
Boarding horses for other departments	136	14
Manure from barn	72	00
Empty oil barrels	5	60
•	\$11,760	61

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$11,279 47

## As follows:

Labor and material	<b>\$</b> 9,972	37
ments	558	35
Building driveways, etc	294	41
Street sweepings	243	00
Boarding horses for other departments	136	14
Manure from barn	72	00
Empty oil barrels	3	20
•	R11 970	47

# SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from October 1 to December 31, 1906, inclusive, amounted to

**\$5,438** 35

# Charged as follows:

Granite curbing	<b>\$3,658</b>	09
Concreting sidewalks		98
Repairing sidewalks and gutters	127	28
•		_

	Bills deposited with the city treasurer for collection (for granite curbing) from Octo-
<b>\$887 09</b>	ber 1 to December 31, 1906, inclusive, amounted to
	During the quarter, coupons from bills collected (for granite curbing), have been returned by the city treasurer, and receipted
<b>\$93</b> 6 19	for to the amount of

# CITY ENGINEER.

Bills approved on account of the city engineer's department from October 1 to December 31, 1906, inclusive, amounted to \$10,241 92

# Charged as follows:

Salary - city engineer	\$1,125 00
Salaries of assistants	7,590 71
Salaries of clerks	828 75
Car fares	403 30
Supplies, drawing material, etc	225 - 41
Telephone lines	25 70
Instruments and repairs	23 45
Meteorological instruments and repairs	16 50
Sundries	3 10

\$10,241 92

# BRIDGES.

Bills approved on account of bridges from October 1, to December 31, 1906, inclusive, amounted to . . . . . **\$4,804 2**3

# Charged as follows:

Barn expenses	\$124	29
Branch avenue bridge	6	18
Building at city yard	5	(4)
Cemetery street bridge	2	43
Crawford street bridge	17	08
Eagle street bridge	4	93
Exchange bridge	68	93
Gaspee street bridge	1	85
Horses, wagons, harnesses, etc	42	89
Lumber, hardware, etc	342	09
Manton avenue bridge	9	00
Merino bridge	50	<b>3</b> 0
Mill street bridge	23	85
Point street bridge	379	34
Promenade street bridge	26	85
Randall street bridge	3	90
Red bridge	211	37
Rent of keeper's house—Washington bridge	36	00
Salaries—Point street bridge	1,004	25
Salaries — Red bridge	527	<b>5</b> 0
Salaries — Washington bridge	550	25
Smith street bridge	13	10
Smithfield avenue bridge—to rebuild	493	15
Sundries	192	46
Telephone lines	2	68
Tools	103	02
Valley street bridge — north span	3	18
Valley street bridge — south span	5	15
Washington bridge	479	99
Washington row bridge	7	35
Weybosset bridge	59	39
Whelden street bridge	5	57
	\$4,804	23

**\$14,036** 54

As follows:

PUBLIC LIGHTS.	-			
Bills approved on account of the publights from October 1, to December 2 1906, inclusive, amounted to		86	9,663	96
Charged as follows:				
Are lights	\$50,109 13,282 6,065 195 11	99 15 00		
	\$69,663	96		
Bills deposited with the city treasur for collection from October 1, to Decemb 31, 1906, inclusive, amounted to .			<b>\$</b> 13	25
As follows:				
Lamp post, lanterns and frames	<b>\$</b> 8 5	25 00		
	\$13	25		
During the quarter, coupons from bi collected have been returned by the ci treasurer and receipted for to the amount	ty		<b>\$1</b> 3	25

## PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from October 1, to December 

# Charged as follows:

Salaries of commissioners and secretary	\$1,925 00
Salaries of office assistants	3,35 62
Office supplies	135 15
Telephone lines	19 96
	<b>85 435</b> 72

# ABOLISHING GRADE CROSSING AT GROVE STREET, ETC.

Bills approved for account of abolishing grade crossing at Grove street, etc., from October 1, to December 31, 1906, inclusive, have been paid from the special appropriation for that work, to the amount of ...

. \$6,894.68

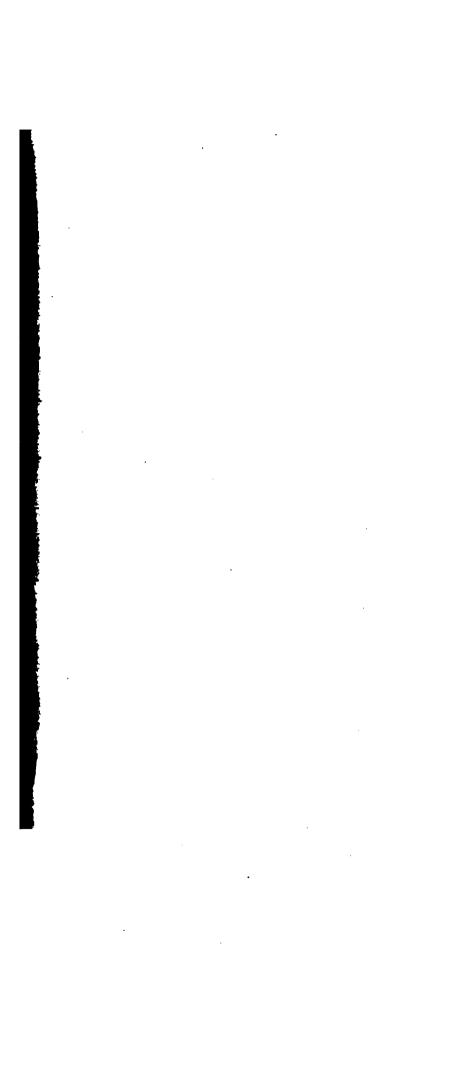
# Charged as follows:

Building approaches to Arthur avenue bridge Building retaining walls, etc., Barre street	25 37
, ,	\$6,891-68

WALTER F. SLADE.

Commissioner.





Bills deposited with the city treasurer	
for collection (for granite curbing) from Octo-	
ber 1 to December 31, 1906, inclusive,	
amounted to	<b>\$887 00</b>
During the quarter, coupons from bills	
collected (for granite curbing), have been	_
returned by the city treasurer, and receipted	
for to the amount of	<b>293</b> 6 19

# CITY ENGINEER.

Bills approved on account of the city engineer's department from October 1 to December 31, 1906, inclusive, amounted to

\$10,241 92

# Charged as follows:

Salary — city engineer	\$1,125 00
Salaries of assistants	7,500 71
Salaries of clerks	828 75
Car fares	403 30
Supplies, drawing material, etc	225 41
Telephone lines	25 70
Instruments and repairs	23 45
Meteorological instruments and repairs	16 50
Sundries	3 10

\$10,241 92

# BRIDGES.

Bills approved on account of bridges								from Oc-		
tober	1,	to	Decei	nber	31,	1906	,	inclusive,		
amoun	ted	to	•	•	•	•		•	<b>\$4,804</b>	23

#### Charged as follows: Barn expenses..... \$124 29 Branch avenue bridge..... 6 18 Building at city yard...... 5 92 Cemetery street bridge..... 2 43 Crawford street bridge..... 17 08 4 92 Eagle street bridge..... Exchange bridge..... 68 93 Gaspee street bridge..... 1 85 Horses, wagons, harnesses, etc..... 42 89 Lumber, hardware, etc..... 342 09 Manton avenue bridge..... 9 00 Merino bridge..... 50 30 Mill street bridge..... 23 85 Point street bridge ..... 379 34 Promenade street bridge..... 26 85 Randall street bridge..... 3 90 211 37 Red bridge..... Rent of keeper's house—Washington bridge...... 36 00 Salaries-Point street bridge..... 1,004 25 Salaries - Red bridge..... 527 50 Salaries — Washington bridge.. ..... 550 25 13 10 Smith street bridge ..... Smithfield avenue bridge—to rebuild..... 493 15 Sundries..... 192 46 Telephone lines..... 2 68 103 02 Tools..... 3 18 5 15 Washington bridge..... 479 99 7 35 Washington row bridge..... Weybosset bridge..... 59 **39** 5 57 Whelden street bridge.....

**\$14,036** 54

\$4,804 23



